

Fujitsu General provides multi air conditioning systems for buildings AIRSTAGE™Series matched to the size and application of the property


A pleasant air conditioned environment matched to the needs is created by combining a wide variety of outdoor units, indoor units, and controllers.

Outdoor Units Line-up Page 110



Heat Pump type for heating or cooling operation

NEW




Systems for large homes to medium sized offices, shops

4HP, 5HP, 6HP 3 models

AIRSTAGE™ J-IIS

Heat Pump type for heating or cooling operation




Systems for large homes to medium sized offices, shops

4HP, 5HP, 6HP 3 models

AIRSTAGE™ J-II

Heat Pump type for heating or cooling operation




Systems for large offices, hotels, and large composite facilities

8HP-48HP 33models

- Space saving combination : 8HP to 48HP / 21 models
- Energy efficiency combination : 16HP to 44HP / 12 models

AIRSTAGE™ V-II

Heat Recovery type for simultaneous heating and cooling operation



Systems compatible with individual operation mode control, as well as large offices, hotels, and large composite facilities

8HP-48HP 34models

- Space saving combination : 8HP to 48HP / 21 models
- Energy efficiency combination : 16HP to 44HP / 13 models

AIRSTAGE™ VR-II

Indoor Units & Ventilations Line-up Page 134

Capacity range 1.1 kW to 25.0 kW (J-II can be connected up to 14.0 kW.)





Compact Cassette



Cassette



Low Static Pressure Duct



Slim Duct (With drain pump)



Medium Static Pressure Duct



High Static Pressure Duct



Floor / Ceiling



Ceiling



Wall Mounted (EEV internal / EEV external)



Wall Mounted

NEW Outdoor Air Unit 3 models Page 166




Various Easy-to-use Controllers Page 140

User's needs are supported by offering a variety of controls, such as individual control, central control, and building management control options.




Available Summer 2014


NEW




Wireless Remote Controller




Simple Remote Controller




Wired Remote Controller




Wired Remote Controller (Touch Panel)




Wired Remote Controller




Group Remote Controller



Central Remote Controller



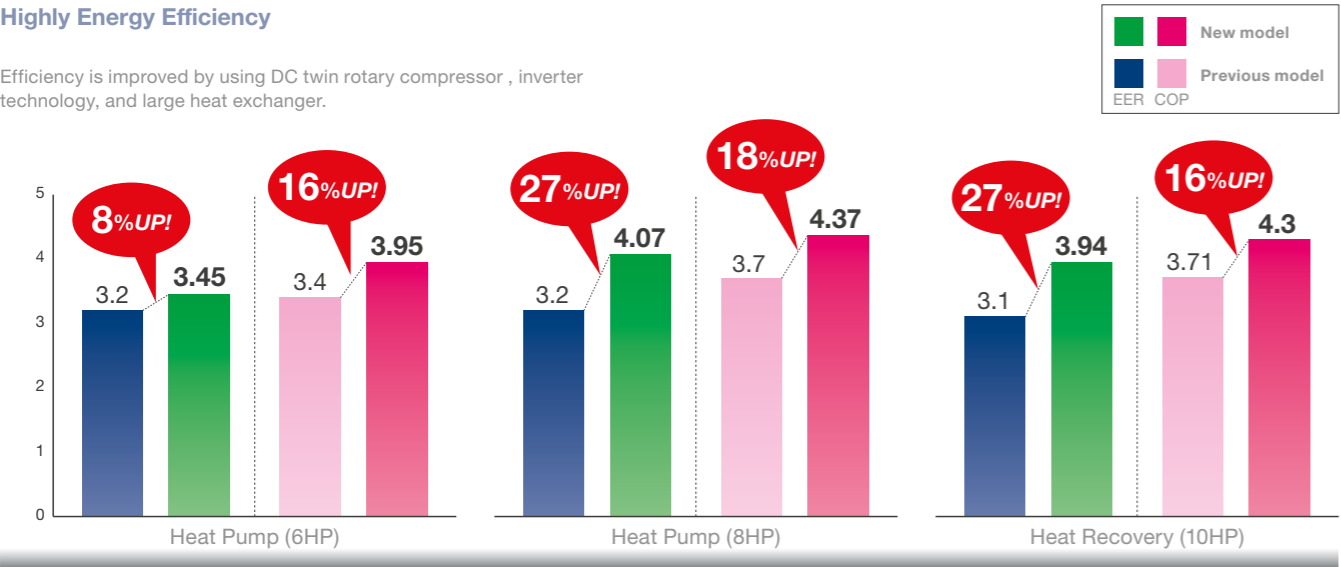
Touch Panel Controller



System Controller System Controller Lite (Software)

Highly Energy Efficiency

Efficiency is improved by using DC twin rotary compressor , inverter technology, and large heat exchanger.

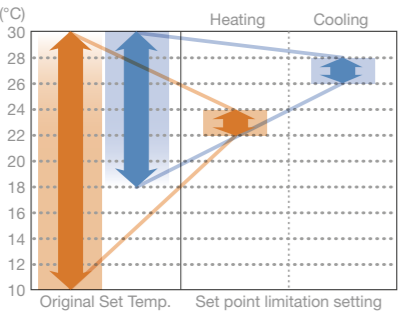


Features

Energy Saving Function

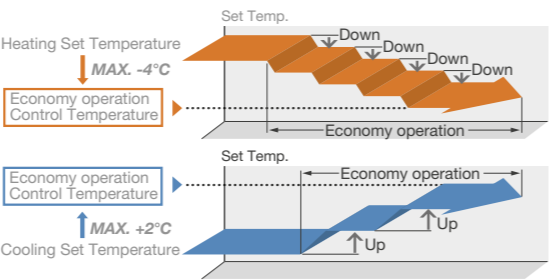
Room temperature set point limitation

The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.



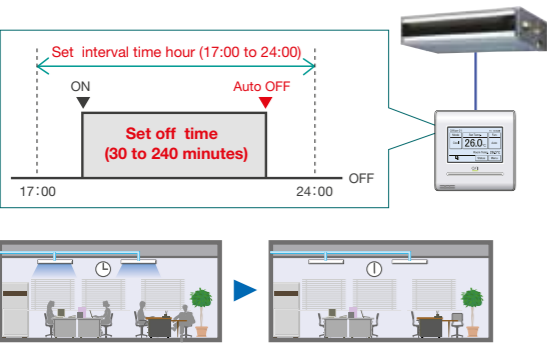
Economy operation

Economy operation can be set by remote controller. The temperature setting is offset automatically over a certain period of time.



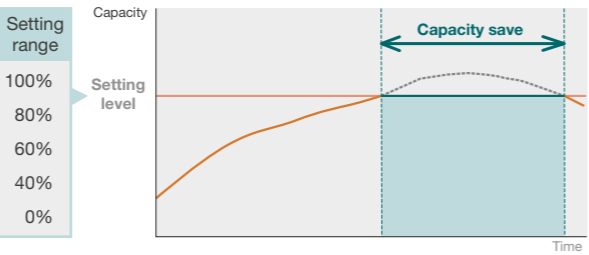
Auto-off timer

- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.



Capacity save operation

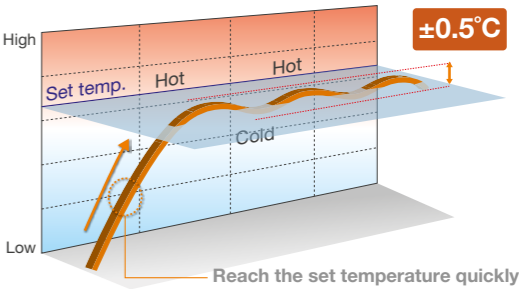
Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.



More Comfort

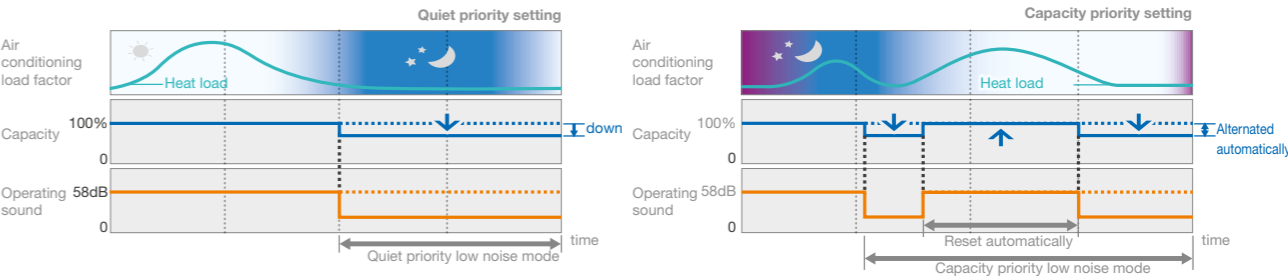
Precision refrigerant flow control

Precision and Smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows for a high precision comfortable temperature control within $\pm 0.5^{\circ}\text{C}$ of set temperature.



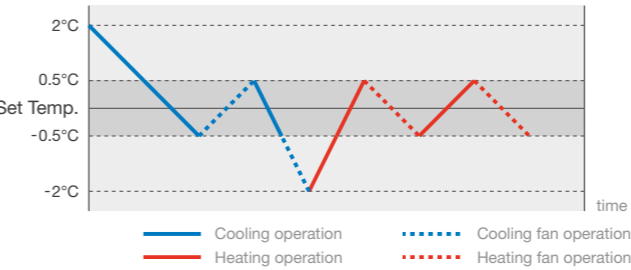
Quiet operation

Low noise mode: Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the usage environment and outside temperature load.

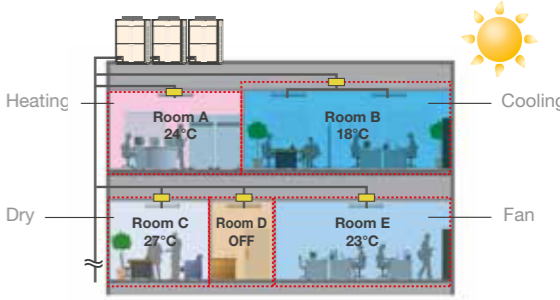


Auto changeover function

At Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.



Suitable for especially Heat Recovery type



Features

Design Flexibility

High capacity connection

4HP-6HP

AIRSTAGE™ J-IIS series
Heat Pump type



Connectable indoor unit
capacity range
50% to 130%^{*1}

Connectable indoor
unit number
up to 8

4HP-6HP

AIRSTAGE™ J-II series
Heat Pump type



Connectable indoor unit
capacity range
50%^{*2} to 130%^{*1}

Connectable indoor
unit number
up to 9

8HP-48HP

AIRSTAGE™ V-II series
Heat Pump type



Connectable indoor unit
capacity range
50% to 150%^{*1}

Connectable indoor
unit number
up to 48

AIRSTAGE™ VR-II series
Heat Recovery type

Connectable indoor unit
capacity range
50% to 150%^{*1}

Connectable indoor
unit number
up to 64

^{*1} . Conditions of maximum connectable indoor unit capacity ratio is as the chart below.
^{*2} . Only 4HP is 46%

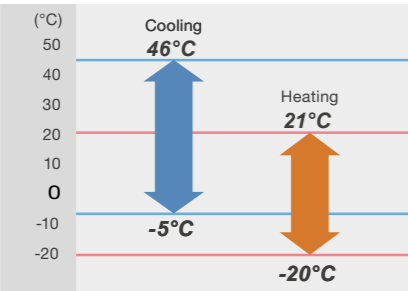
Outdoor unit capacity	Maximum connectable indoor capacity ratio	
	Without 1.1 kW models	With 1.1 kW models ^{*3}
8HP-48HP	150%	130%
4HP-6HP	130%	117%(J-IIS), 120%(J-II)

^{*3} . In the case of connectable indoor units, 1.1 kW models and Cassette and/or Duct type of 9.0 kW class or more, maximum connectable indoor unit capacity ratio is 110%.

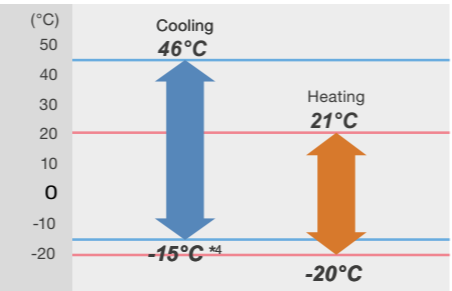
Wide operating range

Installation in extreme temperature conditions is possible due to an increase in operational range.

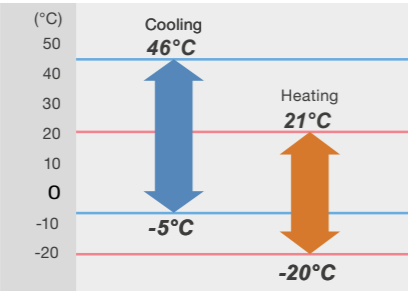
Airstage™ J-IIS series Heat Pump type



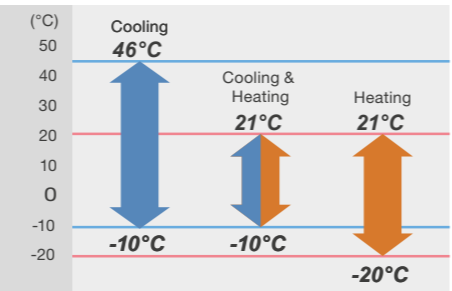
Airstage™ V-II series Heat Pump type



Airstage™ J-II series Heat Pump type



Airstage™ VR-II series Heat Recovery type

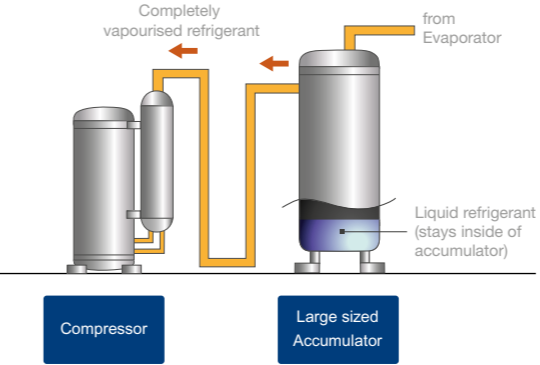


^{*2} Note : When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

High Reliability

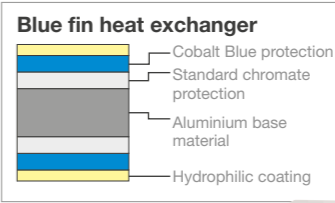
Liquid back flow protection

By adopting a large sized accumulator, the refrigerant which is not completely vaporized is left inside the accumulator and only a stable gas is fed to the compressor.



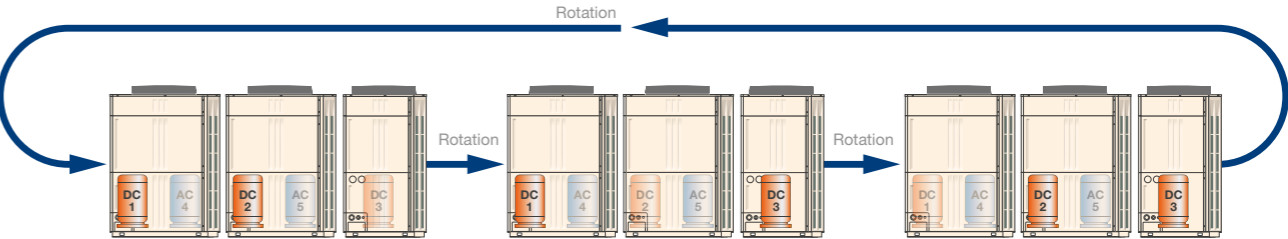
Adoption of blue fin heat exchanger

Corrosion resistant of the heat exchanger has been improved by the introduction of blue fin treatment to the outdoor unit's heat exchanger.



Life-extending operation^{*5}

The compressor starting order is rotated so that the running time is shared.

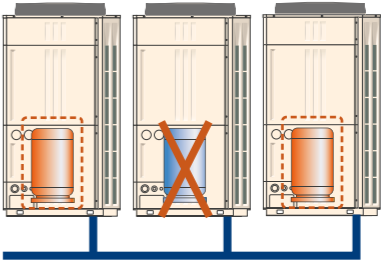


Note: The inverter compressors start in priority. Rotate operation is alternated by the start / stop timing of the compressors

Backup operation^{*5}

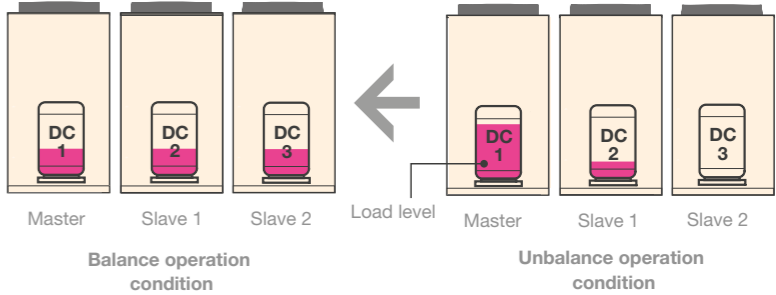
If one compressor fails, backup operation will be performed by the remaining compressors^{*}.

^{*} Note: Backup operation may not be possible depending on the trouble state.



Advanced Refrigerant Control^{*5}

Innovative compressor control logic has been introduced in order to balance the refrigerant mass flow rate of each outdoor unit by controlling the inverter speed.



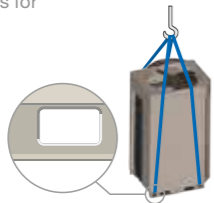
^{*5} Not available for AIRSTAGE™ J-IIS and J-II series

Features

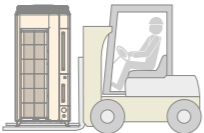
Easy Installation

Easily transported

Easily craned using lifting belt hooks
Design of outdoor unit allows for lifting straps to be used



Transporting by forklift
Transport with forklift is possible.



Can be transported
in a small elevator



Easy access

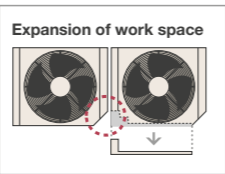


Reduced installation
intervals by front access

Flexible installation by
4 way pipe direction



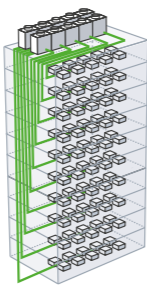
By adopting a L-Shape front panel that can be removed, the work space for installation and service has been significantly expanded by this new design. For multiple installations, work is performed easily and efficiently even in a narrow space.



Simple wiring work

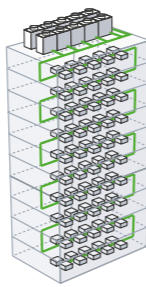
Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.

Note: Serial connection can't use the automatic address setting in a multiple refrigerant system.



Parallel connection

or



Serial connection

Up to maximum
length 3,600m

Automatic address setting

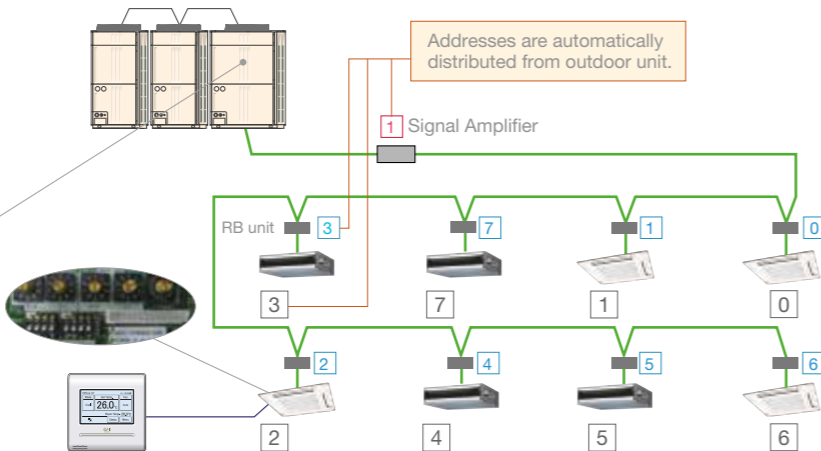
The address of the indoor unit, RB unit and signal amplifier through the automatic function setting on the outdoor unit PCB.

Automatic address setting is performed at outdoor unit

Addresses are automatically distributed from outdoor unit.



Press the push button
switch of outdoor unit.



Manual address setting from indoor unit and remote controller is also possible.

Easy Service & Maintenance

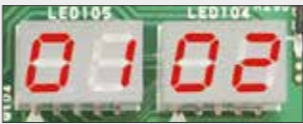
Design for Easy Maintenance



Movable PCB panel
Easier for maintenance
work behind the PCB

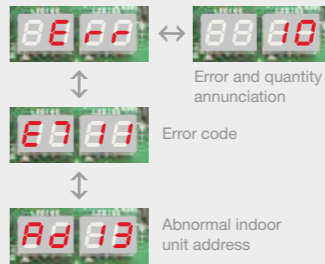


Easy to read 7-segment LED:
Confirm detailed operational and error status without using any specific equipment.



7-segment LED

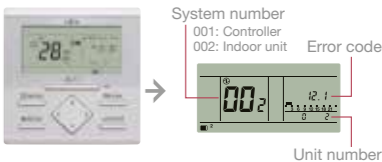
- Operation mode status
- Discharge temperature / Pressure status
- Compressor operation indication
- Address / type / number of outdoor unit



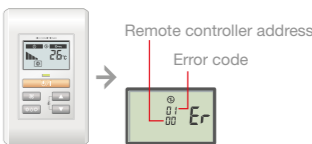
- Error status can be checked easily by outdoor unit display

Error status can be checked easily
via the indoor unit wired controller
An error code is displayed on a liquid crystal screen.

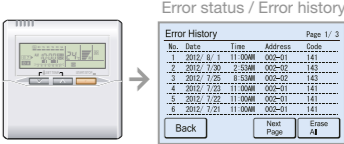
Wired Remote Controller



Simple Remote Controller



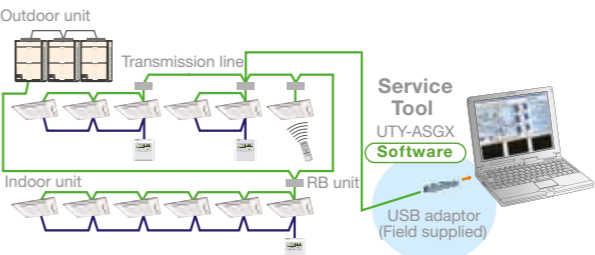
Wired Remote Controller (Touch panel)



Trouble diagnosis by Service Tool

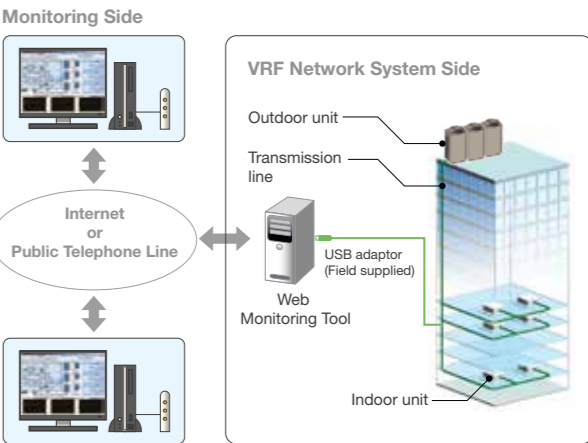
Connection to Service Tool

- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.



Remote monitoring

The Web Monitoring system allows you view system operation at all times over the internet ensuring trouble free operation.



The operating VRF network system in the building can be monitored real time over the Internet.

J-IIS 2 pipe mini vrf

NEW Heat pump : AJY040LCLAH / AJY045LCLAH / AJY054LCLAH

Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.



Features

It Can be Easily Carried and Installed Obscure Place

Current model / 6HP class
Height:1334 mm
Weight:117 kg

NEW Model / 6HP class

Height difference
998 mm
▲25%

Light weight
87 kg
▲26%

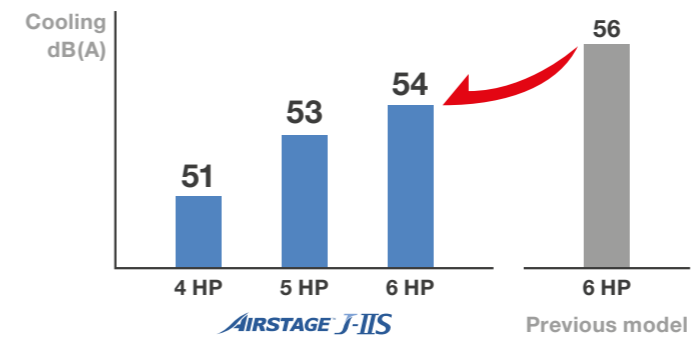
Small and light weight outdoor unit

This model is much more compact than conventional 6HP comparable outdoor units. Even when installed on the balcony it fits within the height of the fence. The compact size with a height of less than 1 m allows it to be installed under windows and in tight spaces

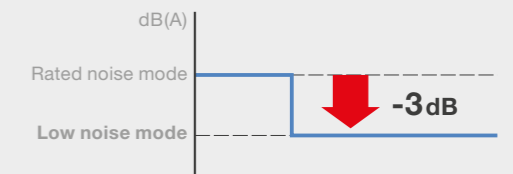
Features

Low sound level design

Significantly low sound level is improved by using DC twin rotary compressor, inverter technology, and advanced airflow structure design.



Lower noise operation is possible by low noise mode than rated noise level.



Advanced high efficiency technology

Large propeller fan
High performance and low noise realized by large propeller and optimization of angle.

DC fan motor
Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.

DC inverter control
Efficiency is improved by mounting of new active filter module.

Low noise rubber
High efficiency compressor motor
Optimized refrigerant flow design
Highly accurate parts

Smooth airflow grille
This grille was aerodynamically designed for good efficiency with little blow loss.

Large heat exchanger
Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.

High heat transfer copper tube
(Improved lead angle)

Compact and high performance DC twin rotary compressor
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

High

Compressor efficiency

Compressor capacity

100%

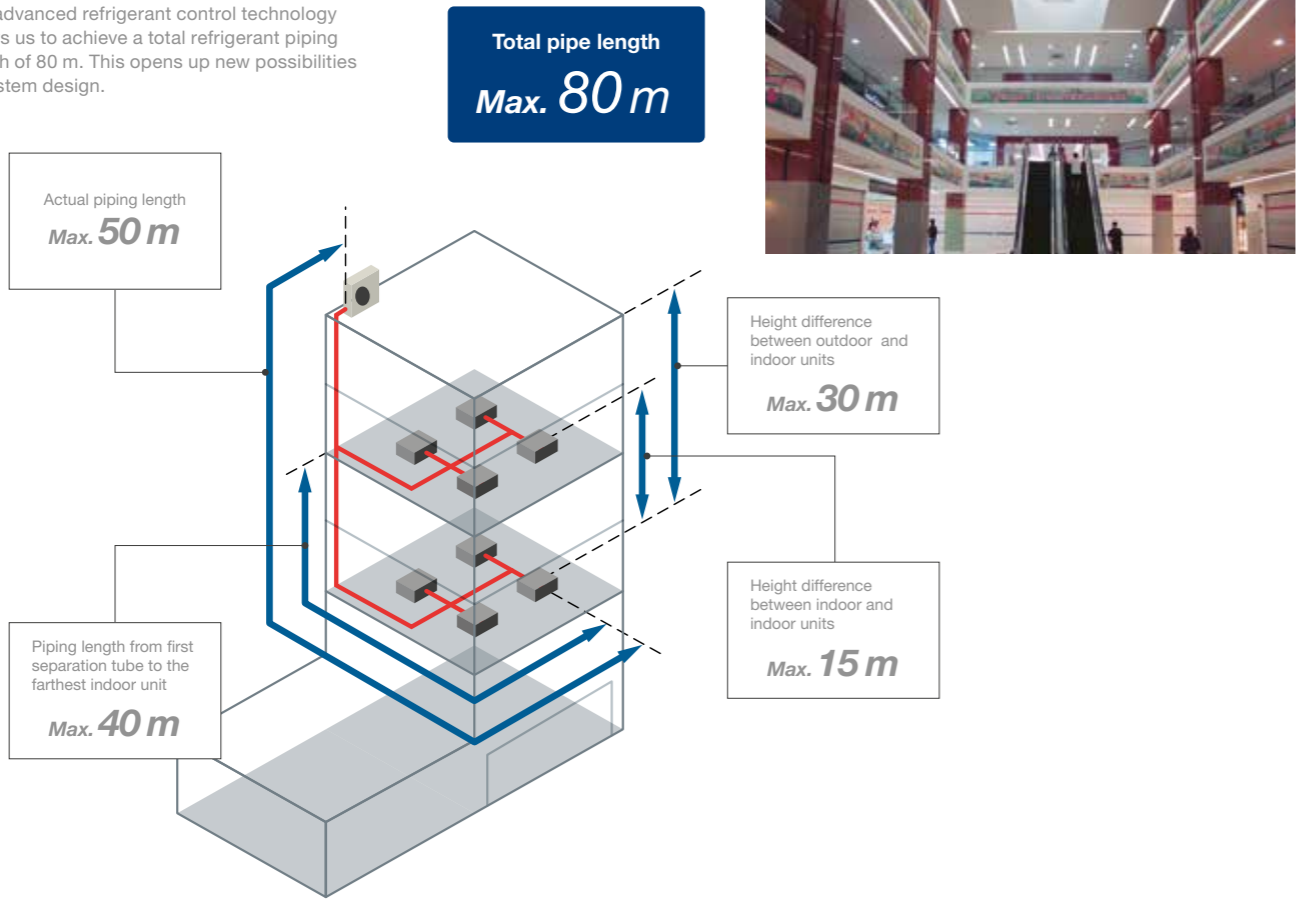
High

J-II S 2 pipe mini vrf

Features

Long piping length

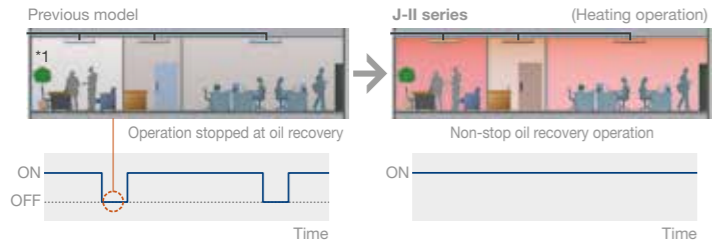
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. This opens up new possibilities in system design.



More Comfort

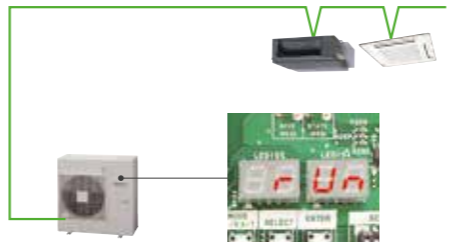
Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



Easier Installation

Connection check function : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed

Specifications

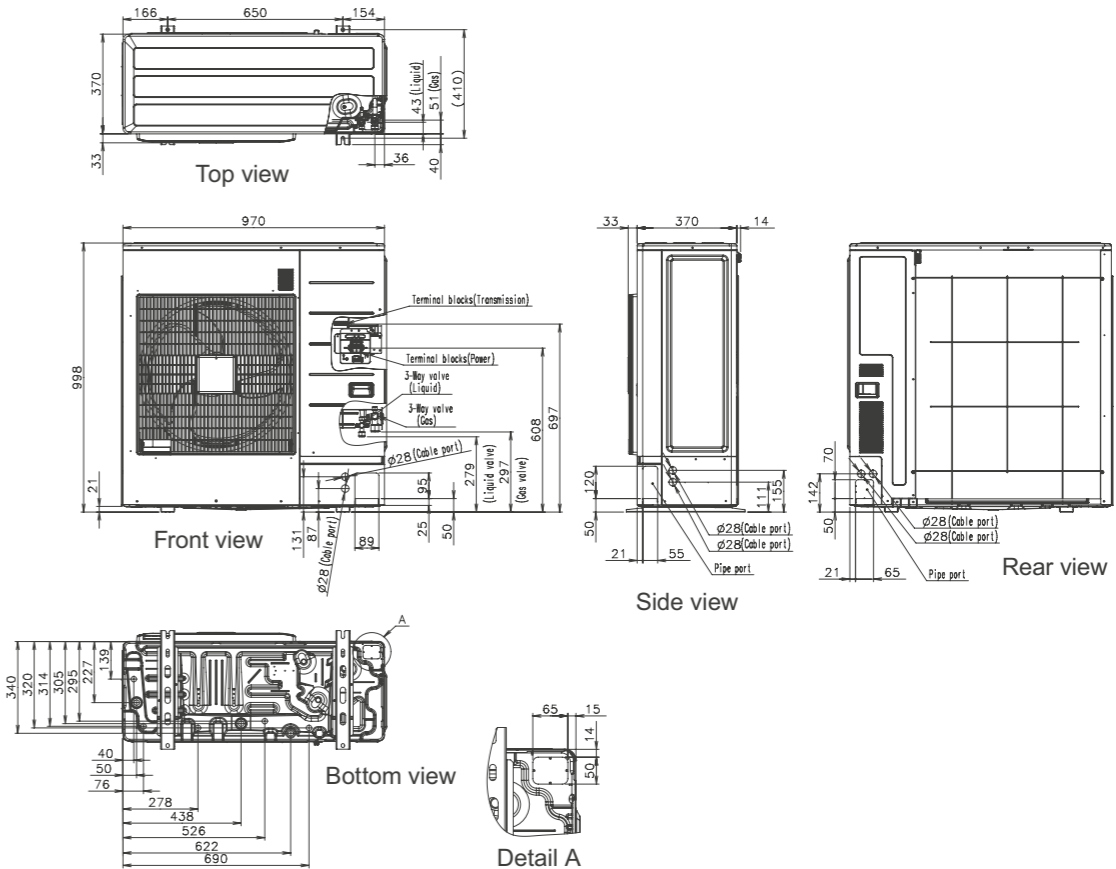
Rating Capacity Range		HP	4	5	6
Model Name			AJY040LCLAH	AJY045LCLAH	AJY054LCLAH
Maximum Connectable Indoor Unit			7	8	8
Power source			V/Ø/Hz	230/1/50	230/1/50
Capacity	Cooling	kW	12.1	14.0	15.1
	Heating	kW	13.6	16.0	16.5
Input Power	Cooling	kW	3.44	4.43	5.32
	Heating	kW	3.09	3.93	4.26
EER	Cooling	W/W	3.52	3.16	2.84
COP	Heating	W/W	4.40	4.07	3.87
Air flow rate			m ³ /h	4,040	4,200
Sound pressure level	Cooling	dB(A)	51	53	54
	Heating	dB(A)	54	55	56
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	998	998	998
	Width	mm	970	970	970
	Weight	mm	370	370	370
Weight			kg	86	86
Connection pipe diameter	Liquid	mm	ø9.52	ø9.52	ø9.52
	Gas	mm	ø15.88	ø15.88	ø15.88
Total pipe length			m	80	80
Ma. height difference			m	30	30
Operation range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46
	Heating	°C	-20 to 21	-20 to 21	-20 to 21
List Price		£	2200	2400	2600

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
The protective function may work when using it outside the operation range.

Dimensions

(Unit : mm)

Model : AJY040LCLAH / AJY045LCLAH / AJY054LCLAH



J-II 2-pipe mini vrf

Heat pump : AJYA40LALH / AJYA45LALH / AJYA54LALH

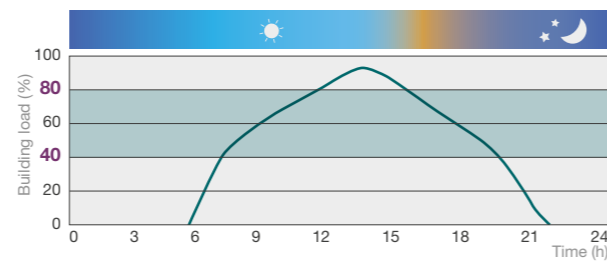
Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.



Features

The building load is the range of almost 40 % to 80 %. Therefore, most air conditioners do not operate at maximum load, but operate at low to medium loads. Especially, for multi system, operation performance at partial load is important because all the air conditioners do not always operate all the time. Aiming at energy saving performance matched to actual operation, Fujitsu General has developed a high intermediate performance air conditioner corresponding not only to the rated performance at 100% load, but also to low to medium load

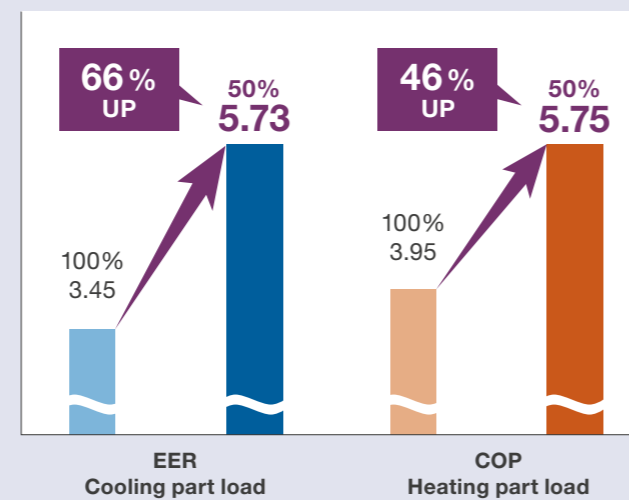
Load curve (a typical office building)



High EER / COP



High part load performance (6HP class)

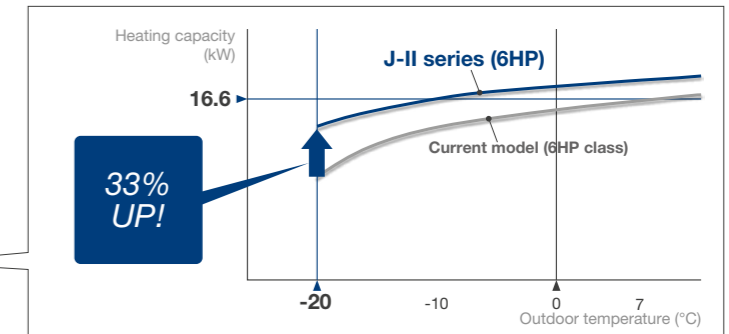


Conditions : Connected indoor units: AUXA30GALH+AUXD24GALH
Cooling : indoor temp. of 27°CDB / 19°CWB, outdoor temp. of 35°CDB / 24°CWB
Heating : indoor temp. of 20°CDB / 15°CWB, outdoor temp. of 7°CDB / 6°CWB

Features

Powerful Heating

Heating capacity is improved at low outdoor temperature by our advanced technology.



Advanced high efficiency technology



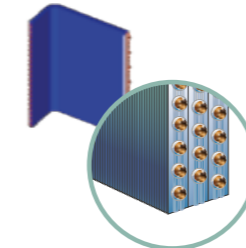
Large propeller fan

High performance and low noise realized by large propeller and optimization of angle.



DC fan motor

Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.



Large heat exchanger

Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.



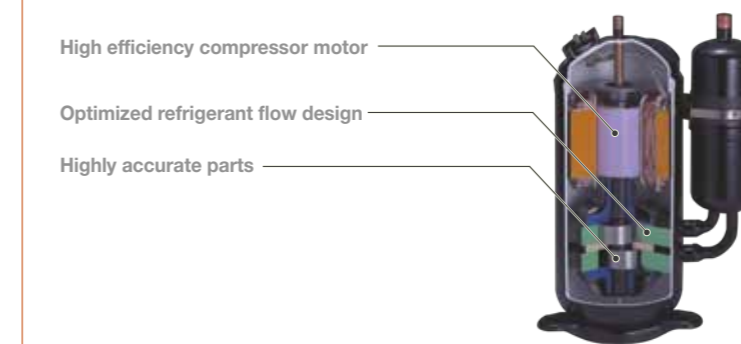
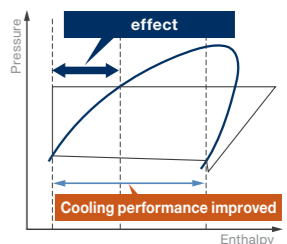
DC inverter control

Efficiency is improved by mounting of new active filter module.



Subcool heat exchanger

Cooling performance is improved by mounting of dual tube heat exchanger.



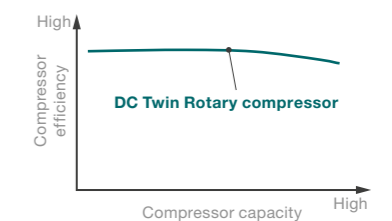
High efficiency compressor motor

Optimized refrigerant flow design

Highly accurate parts

DC twin rotary compressor

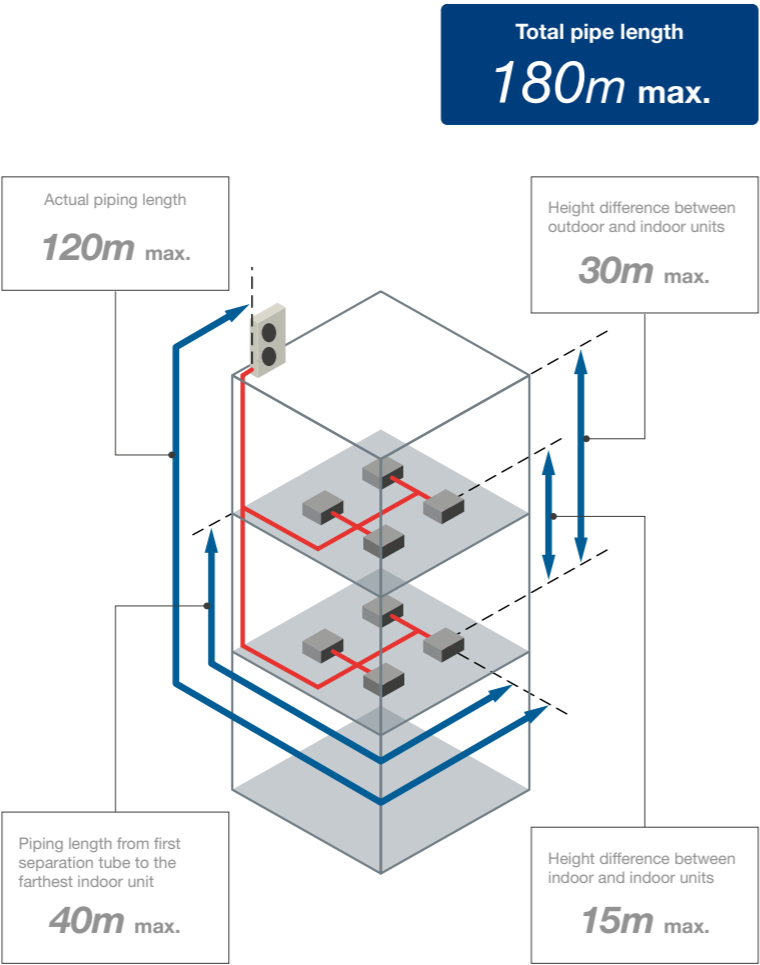
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.



Features

Long Piping Length

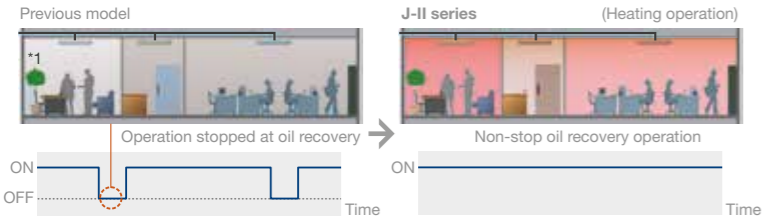
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.



More Comfort

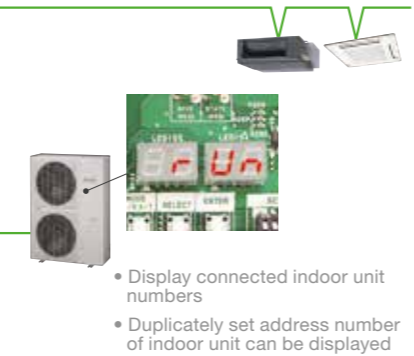
Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



Easier Installation

Connection check function : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



Specifications

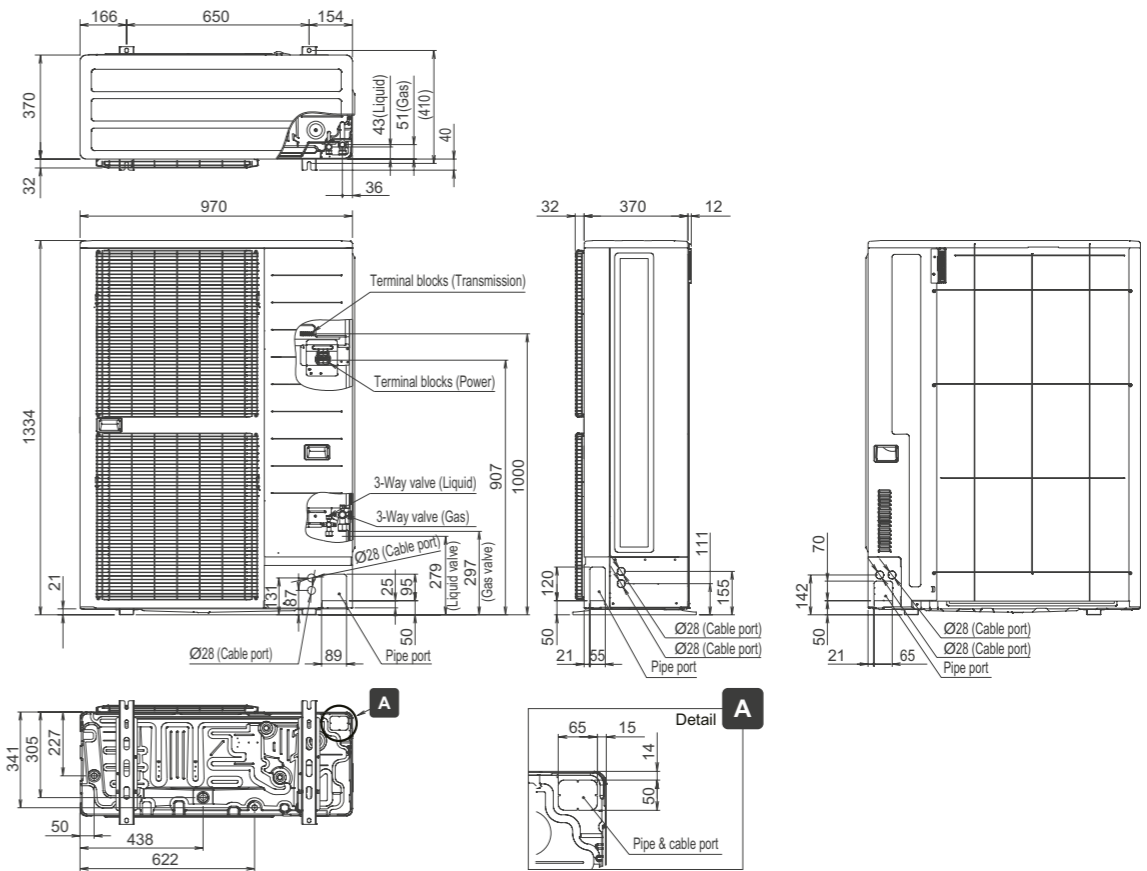
Rating Capacity Range			HP	4	5	6
Model Name				AJYA40LALH	AJYA45LALH	AJYA54LALH
Maximum Connectable Indoor Unit				7	8	9
Power source				230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Capacity	Cooling	kW		12.1	14.0	15.5
	Heating			13.6	16.0	18.0
Input Power	Cooling	kW		3.25	3.89	4.49
	Heating			3.17	3.81	4.56
EER	Cooling	W/W		3.72	3.60	3.45
COP	Heating			4.29	4.20	3.95
Air flow rate		m3/h		6,200	6,400	6,900
Sound pressure level	Cooling	dB(A)		50	51	53
	Heating			52	53	53
Heat exchanger fin				Blue fin	Blue fin	Blue fin
Dimensions	Height	mm		1,334	1,334	1,334
	Width	mm		970	970	970
	Weight	mm		370	370	370
Weight	kg			117	117	117
Refrigerant charge		kg		4.8	5.3	5.3
Connection pipe diameter	Liquid	mm		ø9.52	ø9.52	ø9.52
	Gas			ø15.88	ø15.88	ø19.05
Operation range	Cooling	°C		-5 to 46	-5 to 46	-5 to 46
	Heating			-20 to 21	-20 to 21	-20 to 21
List Price			£	3226	3581	3896

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWVB, and outdoor temperature of 35°CDB / 24°CWVB.
Heating : Indoor temperature of 20°CDB / 15°CWVB, and outdoor temperature of 7°CDB / 6°CWVB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
The protective function may work when using it outside the operation range.

Dimensions

(Unit : mm)

Model : AJYA40LALH / AJYA45LALH / AJYA54LALH



Heat pump

Smart and cutting edge design
Extensive lineup from 8HP to 48HP in 2HP increment
Connectable indoor unit capacity ratio up to 150%

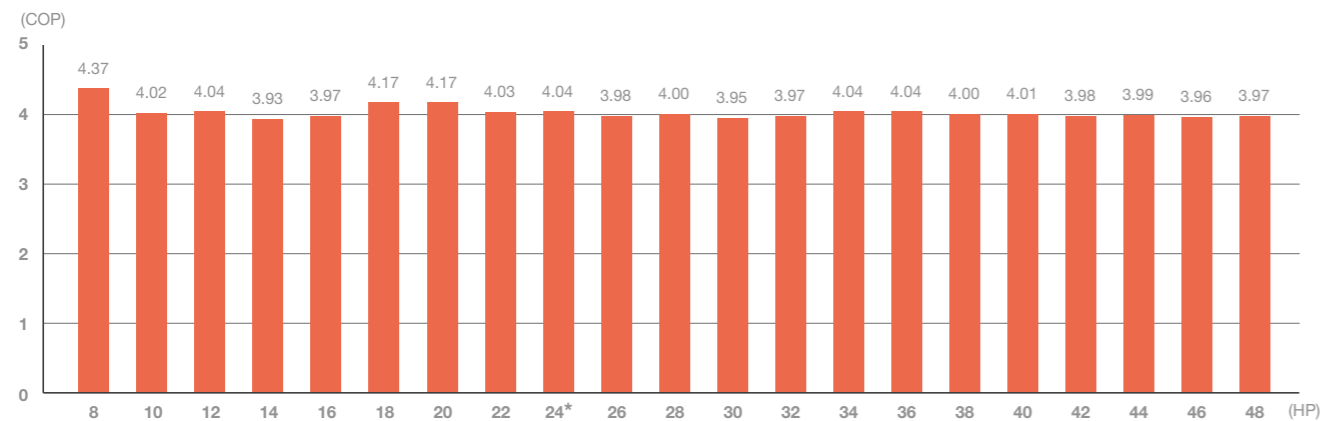


Features

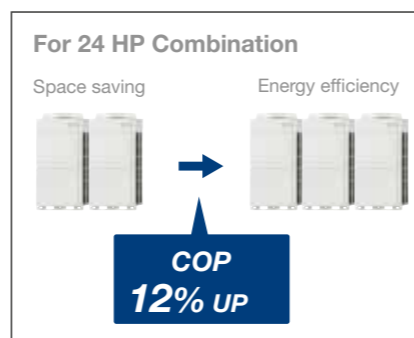
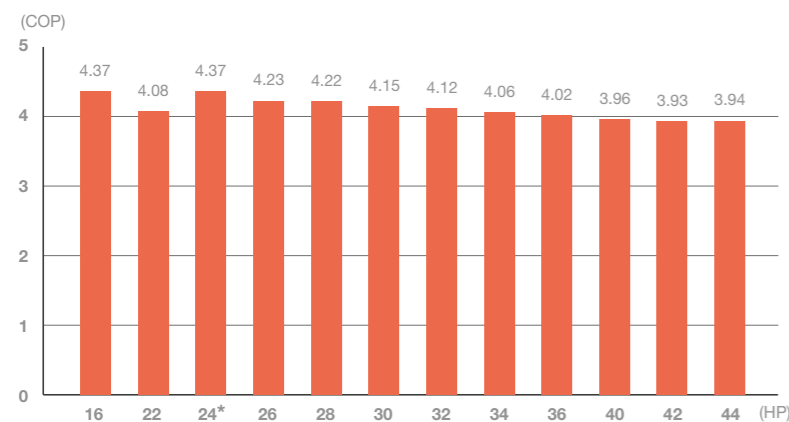
Efficiency in actual operation

Top class high COP is realized for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and other our own technologies.

Space saving combination



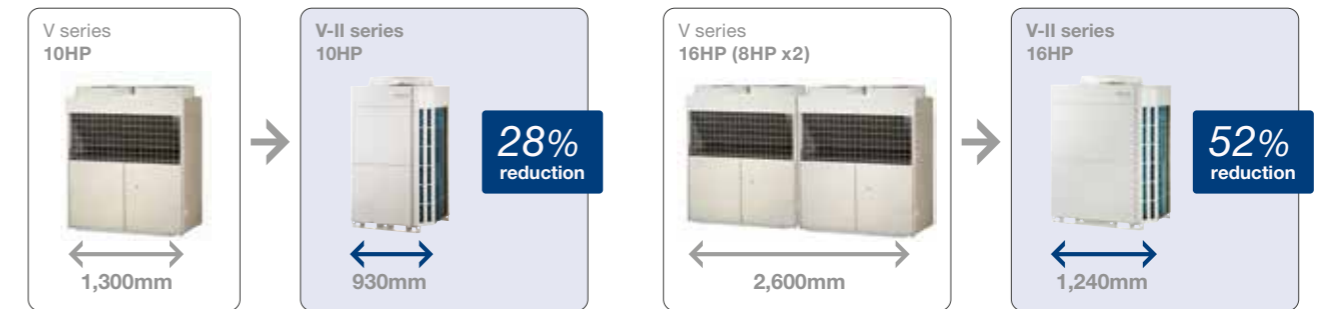
Energy efficiency combination



Features

Space saving and compact size

Compact size has been achieved by significantly reducing the width of the outdoor units compared to previous models.



Energy saving technology that boosted operation efficiency

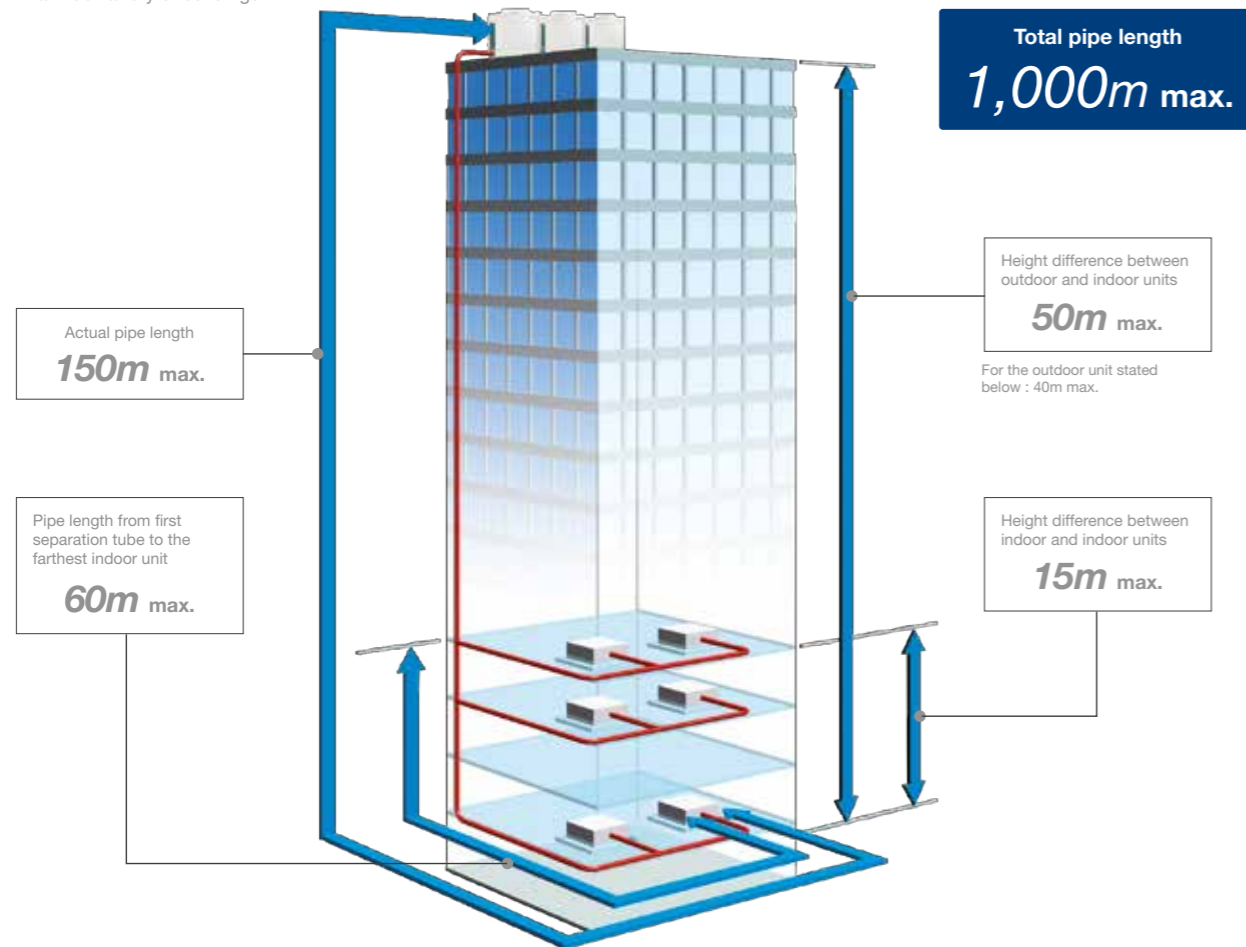


Features

Design Flexibility

Overall piping length 1,000m

World's top class overall piping length of 1,000m allows for application in a wide variety of buildings.

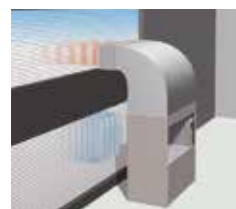


High static pressure of 80Pa

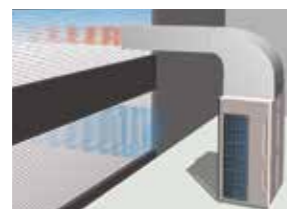
The outdoor unit can have a condenser hood easily connected with a static pressure of 80Pa standard. This allows outdoor units to be installed within plant rooms in high rise buildings.

Powerful discharge with an external static pressure of 80Pa.

Previous model

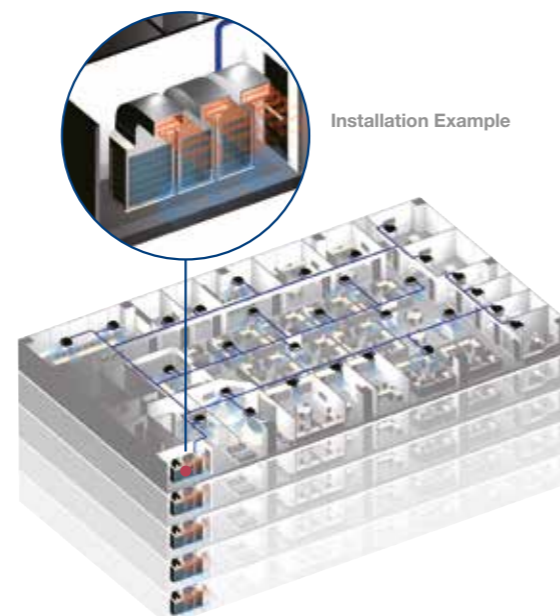


V-II series



Large diameter fan and DC motor has been utilized allowing an external static pressure of 80Pa. This is approximately 2.6 times greater than the previous model.

80Pa
as standard



More Comfort

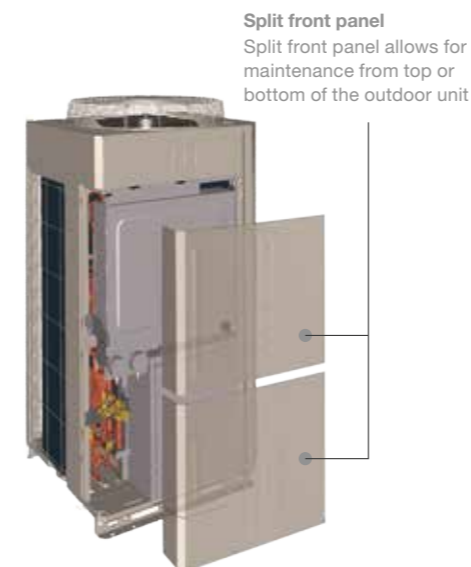
Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



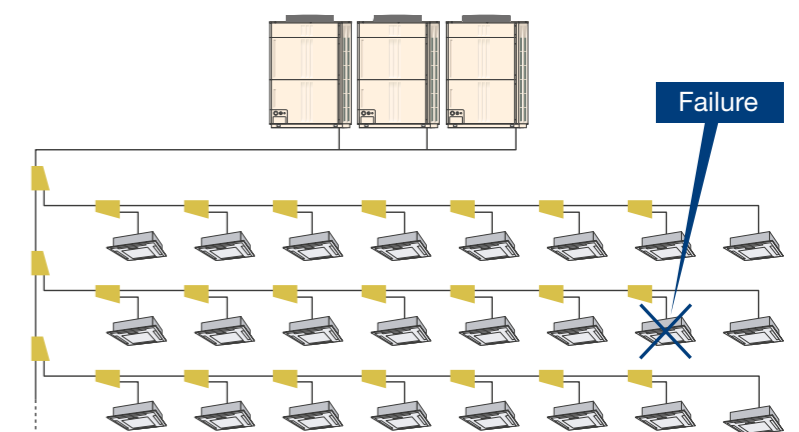
Easy Service & Maintenance

Maintenance of electrical components, valves, and compressor parts from the front is possible.
























Indoor unit continuous operation

Each indoor unit is controlled individually on the system network. This allows all indoor units to continue to operate unaffected even if an error should occur at any indoor unit's on the VRF network system.



Outdoor Units Lineup

*Combinations other than the following are not recommended.

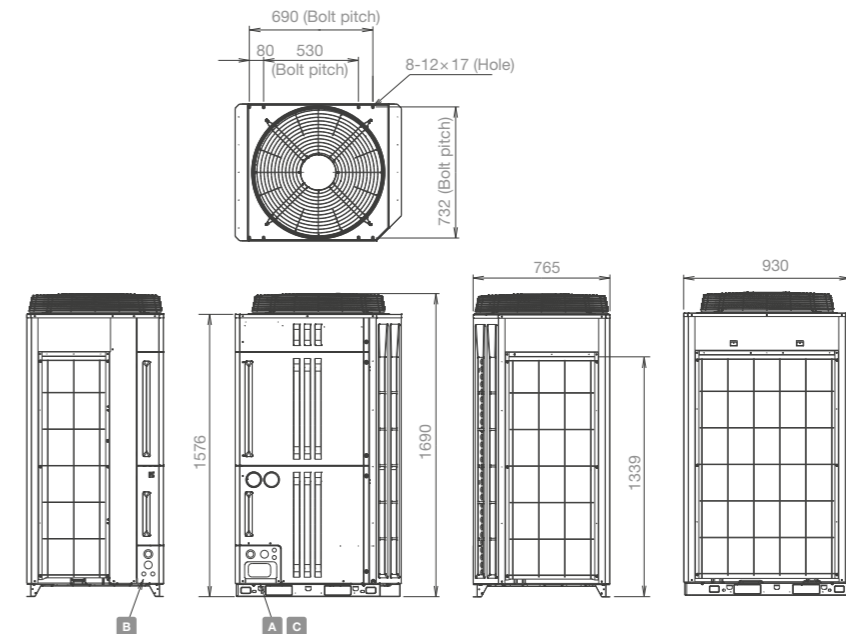
Space Saving Combination				
22.4kW (8HP)  AJYA72LALH UNIT: AJYA72LALH	28.0kW (10HP)  AJYA90LALH UNIT: AJYA90LALH	33.5kW (12HP)  AJY108LALH UNIT: AJY108LALH	40.0kW (14HP)  AJY126LALH UNIT: AJY126LALH	45.0kW (16HP)  AJY144LALH UNIT: AJY144LALH
50.4kW (18HP)  AJYA162LALH UNIT: AJYA90/A72LALH	55.9kW (20HP)  AJY180LALH UNIT: AJY108/A72LALH	61.5kW (22HP)  AJY198LALH UNIT: AJY108/A90LALH	67.0kW (24HP)  AJY216LALH UNIT: AJY108/108LALH	73.5kW (26HP)  AJY234LALH UNIT: AJY126/108LALH
78.5kW (28HP)  AJY252LALH UNIT: AJY144/108LALH	85.0kW (30HP)  AJY270LALH UNIT: AJY144/126LALH	90.0kW (32HP)  AJY288LALH UNIT: AJY144/144LALH	95.0kW (34HP)  AJY306LALH UNIT: AJY108/108/A90LALH	100.5kW (36HP)  AJY324LALH UNIT: AJY108/108/180LALH
107.0kW (38HP)  AJY342LALH UNIT: AJY126/108/108LALH	112.0kW (40HP)  AJY360LALH UNIT: AJY144/108/108LALH	118.5kW (42HP)  AJY378LALH UNIT: AJY144/126/108LALH	123.5kW (44HP)  AJY396LALH UNIT: AJY144/144/108LALH	130.0kW (46HP)  AJY414LALH UNIT: AJY144/144/126LALH
135.0kW (48HP)  AJY432LALH UNIT: AJY144/144/144LALH				

Energy Efficiency Combination				
44.8kW (16HP)  AJY144LALHH UNIT: AJYA72/A72LALH	62.4kW (22HP)  AJY198LALHH UNIT: AJY126/A72LALH	67.2kW (24HP)  AJY216LALHH UNIT: AJYA72/A72/A72GALH	72.8kW (26HP)  AJY234LALHH UNIT: AJYA90/A72/A72LALH	78.3kW (28HP)  AJY252LALHH UNIT: AJY108/A72/A72LALH
84.8kW (30HP)  AJY270LALHH UNIT: AJY126/A72/A72LALH	89.8kW (32HP)  AJY288LALHH UNIT: AJY108/108/A72LALH	95.9kW (34HP)  AJY306LALHH UNIT: AJY126/108/A72LALH	102.4kW (36HP)  AJY324LALHH UNIT: AJY126/126/A72LALH	113.5kW (40HP)  AJY360LALHH UNIT: AJY126/126/108LALH
120.0kW (42HP)  AJY378LALHH UNIT: AJY126/126/126LALH	125.0kW (44HP)  AJY396LALHH UNIT: AJY144/126/126LALH			

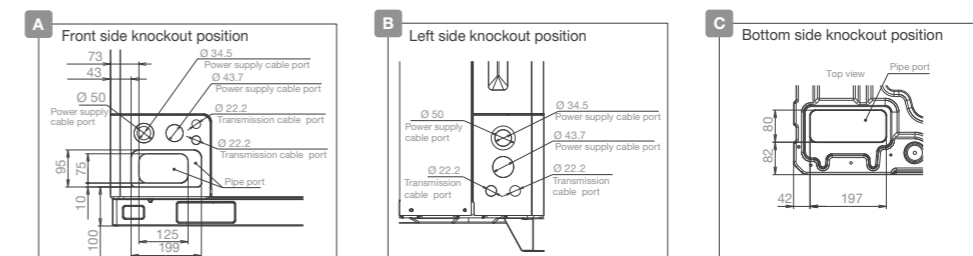
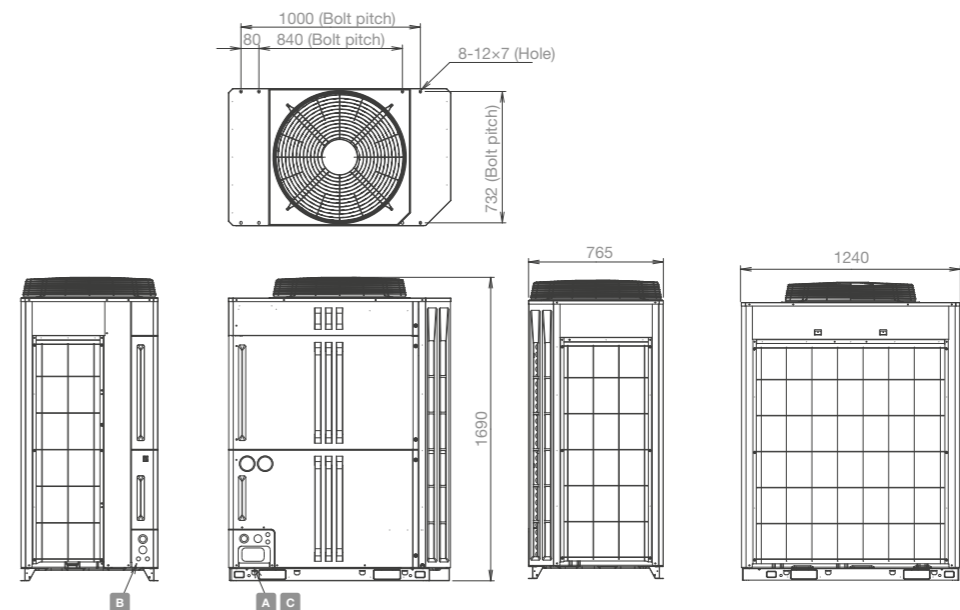
Dimensions

(Unit : mm)

8,10,12HP : AJYA72LALH / AJYA90LALH / AJY108LALH






14,16HP : AJY126LALH / AJY144LALH







Outdoor units specifications

Space Saving Combination







Rating Capacity Range			HP	8	10	12	14	16	18	20	22	24
												
Model name				AJYA72IALH	AJYA90IALH	AJY108IALH	AJY126IALH	AJY144IALH	AJY162IALH	AJY180IALH	AJY198IALH	AJY216IALH
Unit 1 Unit 2 Unit 3				AJYA72IALH	AJYA90IALH	AJY108IALH	AJY126IALH	AJY144IALH	AJYA90IALH AJYA72IALH	AJY108IALH AJYA72IALH	AJY108IALH AJYA90IALH	AJY108IALH AJY108IALH
Maximum connectable indoor unit*1				15	16	17	21	24	32	32	32	35
Indoor unit connectable capacity		Cooling	kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.2-75.6	28.0-83.8	30.8-92.2	33.5-100.5
Power source			3-phase 4 wire , 400 V, 50Hz									
Capacity	Cooling	kW		22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0
	Heating			25.0	31.5	37.5	45.0	50.0	56.5	62.5	69.0	75.0
Input power	Cooling	kW		5.51	7.73	9.62	11.53	14.71	13.24	15.13	17.35	19.24
	Heating			5.72	7.83	9.28	11.45	12.60	31.55	15.00	17.11	18.56
EER	Cooling	W/W		4.07	3.62	3.48	3.47	3.18	3.81	3.69	3.54	3.48
COP	Heating	W/W		4.37	4.02	4.04	3.93	3.97	4.17	4.17	4.03	4.04
Air flow rate	High	m³/h		11,100	11,100	11,100	13,000	13,000	11,100 x 2	11,100 x 2	11,100 x 2	11,100 x 2
Sound pressure level*2	Cooling	dB(A)		56	58	58	60	61	60	60	61	61
	Heating			58	59	60	61	61	62	62	63	63
Maximum external static pressure		Pa		80	80	80	80	80	80	80	80	80
Compressor motor output		kW		3.9	3.9	3.9 + 4.5	3.9 + 4.5	3.9 + 4.5	3.9 x 2	3.9 x 2 + 4.5	3.9 x 2 + 4.5	3.9 x 2 + 4.5 x 2
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm		1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width			930	930	930	1,240	1,240	930 x 2	930 x 2	930 x 2	930 x 2
	Depth			765	765	765	765	765	765	765	765	765
Weight	kg		220	220	275	303	303	220 + 220	275 + 220	275 + 220	275 + 275	
Refrigerant charge		kg		11.2	11.2	11.8	11.8	11.8	11.2 x 2	11.8 + 11.2	11.8 + 11.2	11.8 x 2
Connection pipe diameter	Liquid	mm		12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Gas			22.22	22.22	28.58	28.58	28.58	28.58	34.92	34.92	34.92
Operation range	Cooling	°C		-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating			-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
List Price			£	5427	6010	7258	8505	10273	11257	12505	13268	14516




Energy Efficiency Combination

Rating Capacity Range			HP	16	22	24	26	28	30
									
Model name				AJY144IALHH	AJY198IALHH	AJY216IALHH	AJY234IALHH	AJY252IALHH	AJY270IALHH
Unit1 Unit 2 Unit 3				AJYA72IALH AJYA72IALH	AJY126IALH AJYA72IALH	AJYA72IALH AJYA72IALH AJYA72IALH	AJYA90IALH AJYA72IALH AJYA72IALH	AJY108IALH AJYA72IALH AJYA72IALH	AJY126IALH AJYA72IALH AJYA72IALH
Maximum connectable indoor unit*1				30	33	36	39	42	45
Indoor unit connectable capacity	Cooling	kW		22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source			3-phase 4 wire , 400 V, 50Hz						
Capacity	Cooling	kW		44.8	62.4	67.2	72.8	78.3	84.8
	Heating			50.0	70.0	75.0	81.5	87.5	95.0
Input power	Cooling	kW		11.02	17.04	16.53	18.75	20.64	22.55
	Heating			11.44	17.17	17.16	19.27	20.72	22.89
EER	Cooling	W/W		4.07	3.66	4.07	3.88	3.79	3.76
COP	Heating	W/W		4.37	4.08	4.37	4.23	4.22	4.15
Air flow rate	High	m³/h		11,100 × 2	13,000 + 11,100	11,100 × 3	11,100 × 3	11,100 × 3	13,000 + 11,000 x 2
Sound pressure level*2	Cooling	dB(A)		59	61	61	62	62	63
	Heating			59	62	61	62	63	63
Maximum external static pressure		Pa		80	80	80	80	80	80
Compressor motor output		kW		3.9 × 2	3.9 × 2 + 4.5	3.9 × 3	3.9 × 3	3.9 × 3 + 4.5	3.9 × 3 + 4.5
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm		1,690	1,690	1,690	1,690	1,690	1,690
	Width			930 × 2	930 + 1,240	930 × 3	930 × 3	930 × 3	930 × 2 + 1,240
	Depth			765	765	765	765	765	765
Weight		kg		220 + 220	303 + 220	220 + 220 + 220	220 + 220 + 220	275 + 220 + 220	303 + 220 + 220
Refrigerant charge		kg		11.2 × 2	11.8 + 11.2	11.2 × 3	11.2 × 3	11.8 + 11.2 × 2	11.8 + 11.2 × 2
Connection pipe diameter	Liquid	mm		12.70	15.88	15.88	15.88	15.88	19.05
	Gas			28.58	34.92	34.92	34.92	34.92	34.92
Operation range	Cooling	°C		-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating			-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
List Price		£		10494	13752	15741	16504	17752	18999

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
When cooling operation will be conducted at outdoor air temperature below -5°C,
the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

26	28	30	32	34	36	38	40	42	44	46	48
											
AJY234IALH	AJY252IALH	AJY270IALH	AJY288IALH	AJY306IALH	AJY324IALH	AJY342IALH	AJY360IALH	AJY378IALH	AJY396IALH	AJY414IALH	AJY432IALH
AJY126IALH AJY108IALH	AJY144IALH AJY108IALH	AJY144IALH AJY126IALH	AJY144IALH AJY144IALH	AJY108IALH AJY108IALH AJYA90IALH	AJY108IALH AJY108IALH AJY108IALH	AJY126IALH AJY108IALH AJY108IALH	AJY144IALH AJY108IALH AJY108IALH	AJY144IALH AJY126IALH AJY108IALH	AJY144IALH AJY144IALH AJY108IALH	AJY144IALH AJY144IALH AJY126IALH	AJY144IALH AJY144IALH AJY144IALH
39	42	45	48	48	48	48	48	48	48	48	48
36.8-110.2	39.3-117.7	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.7	53.5-160.5	56.0-168.0	59.3-177.7	61.8-185.2	65.0-195.0	67.5-202.5
3-phase 4 wire , 400 V, 50Hz											
73.5	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0
82.5	87.5	95.0	100.0	106.5	112.5	120.0	125.0	132.5	137.5	145.0	150.0
21.15	23.79	25.70	28.34	26.97	28.86	30.77	33.41	35.32	37.96	39.87	42.51
20.73	21.88	24.05	25.20	26.39	27.84	30.01	31.16	33.33	34.48	36.65	37.80
3.48	3.30	3.31	3.18	3.52	3.48	3.48	3.35	3.36	3.25	3.26	3.18
3.98	4.00	3.95	3.97	4.04	4.04	4.00	4.01	3.98	3.99	3.96	3.97
13,000 + 11,100	13,000 + 11,100	13,000 x 2	13,000 x 2	11,100 x 3	11,100 x 3	13,000 + 11,100 x 2	13,000 + 11,100 x 2	13,000 x 2 + 11,100	13,000 x 2 + 11,100	13,000 x 3	13,000 x 3
62	63	64	64	63	63	64	64	65	65	65	66
64	64	64	64	64	65	65	65	65	65	66	66
80	80	80	80	80	80	80	80	80	80	80	80
3.9 x 2 + 4.5 x 2	3.9 x 2 + 4.5 x 2	3.9 x 2 + 4.5 x 2	3.9 x 2 + 4.5 x 2	3.9 x 3 + 4.5 x 2	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
930 + 1,240	930 + 1,240	1,240 x 2	1,240 x 2	930 x 3	930 x 3	930 x 2 + 1,240	930 x 2 + 1,240	930 + 1,240 x 2	930 + 1,240 x 2	1,240 x 3	1,240 x 3
765	765	765	765	765	765	765	765	765	765	765	765
303 + 275	303 + 275	303 + 303	296 + 296	275 + 275 + 220	275 + 275 + 275	303 + 275 + 275	303 + 275 + 275	303 + 303 + 275	303 + 303 + 275	303 + 303 + 303	303 + 303 + 303
11.8 x 2	11.8 x 2	11.8 x 2	11.8 x 2	11.8 x 2 + 11.2	11.8 x 3	11.8 x 3	11.8 x 3	11.8 x 3	11.8 x 3	11.8 x 3	11.8 x 3
15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
15763	17531	18778	20546	20526	21774	23021	24789	26036	27804	29051	30819

32	34	36	40	42	44
					
AJY288IALHH	AJY306IALHH	AJY324IALHH	AJY360IALHH	AJY378IALHH	AJY396IALHH
AJY108IALH AJY108IALH AJY126IALH	AJY126IALH AJY108IALH AJYA72IALH	AJY126IALH AJY126IALH AJYA72IALH	AJY126IALH AJY126IALH AJY108IALH	AJY126IALH AJY126IALH AJY126IALH	AJY144IALH AJY126IALH AJY126IALH
48	48	48	48	48	48
44.7-134.1	48.0-143.8	51.2-153.6	56.8-170.2	60.0-180.0	62.5-187.5
3-phase 4 wire , 400 V, 50Hz					
89.4	95.9	102.4	113.5	120.0	125.0

Heat Recovery

Smart and cutting edge design
Extensive lineup from 8HP to 48HP in 2HP increment
Connectable indoor unit capacity ratio up to 150%



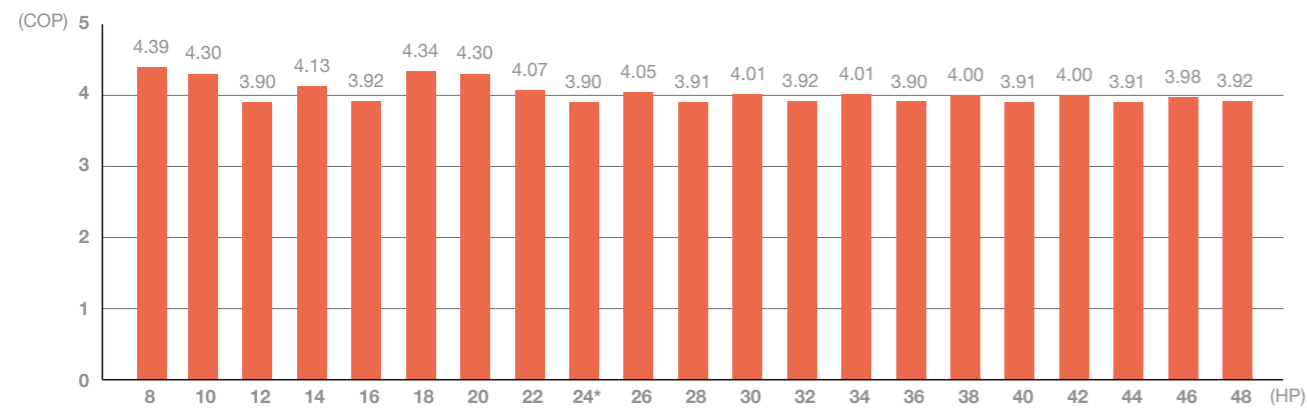
Features

High Efficiency

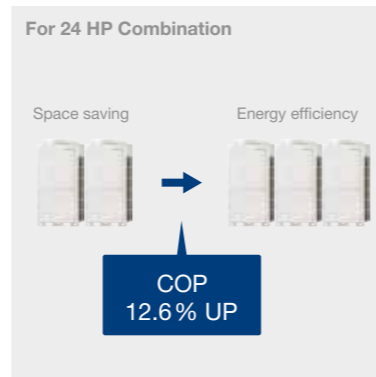
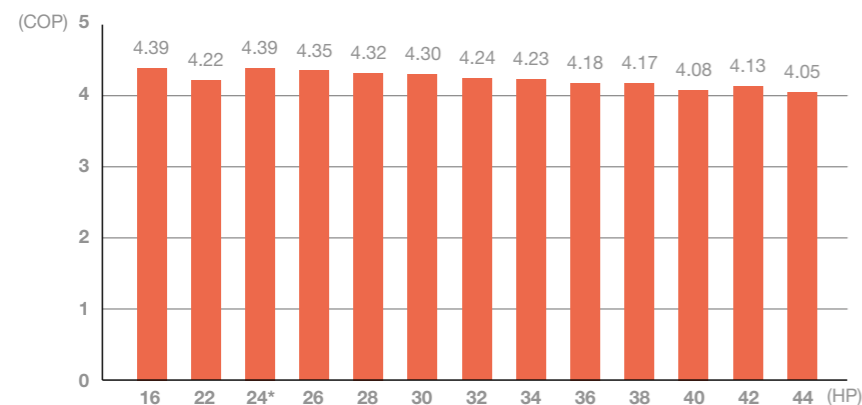
Efficiency in actual operation

Top class high COP is realized for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and other our own technologies.

Space saving combination



Energy efficiency combination



Features

Energy saving technology that boosted operation efficiency



Powerful large propeller fan

By using CFD^{*1} technology, a newly designed fan achieves high performance and low noise operation.
*1. CFD = Computational Fluid Dynamics



3 phase DC fan motor

Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.



Subcool heat exchanger

High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.



Sine-wave DC inverter control

High efficiency is realized by adoption of reduced switching loss IPM.



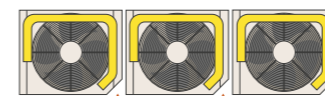
High efficient compressor Large capacity DC inverter compressor

Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.



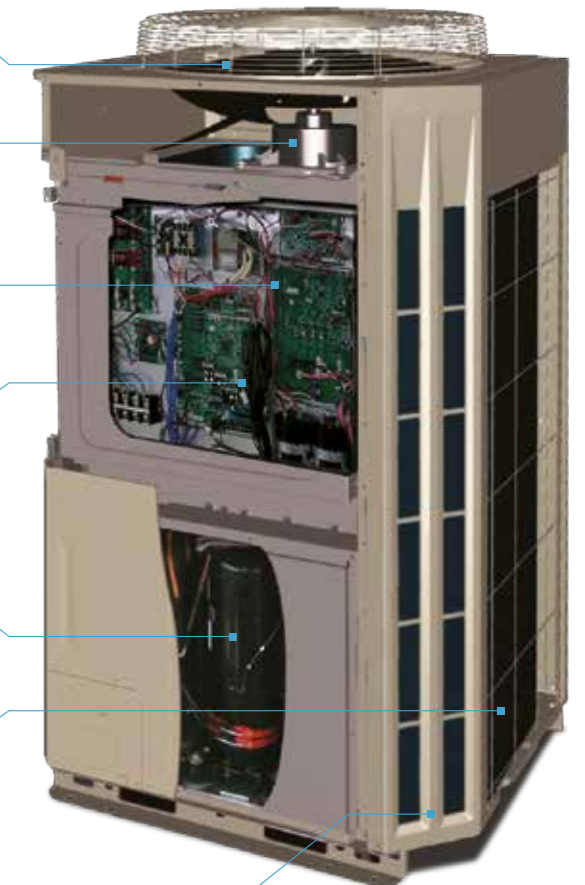
4-face heat exchanger

Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.



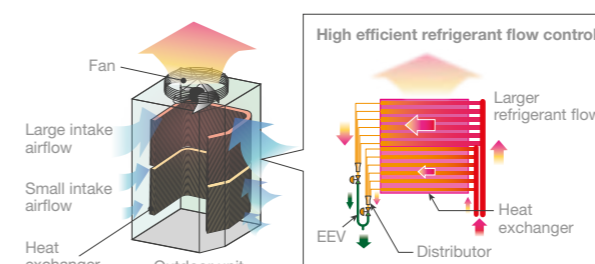
Front intake port (corner cut air inhaling structure)

In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.



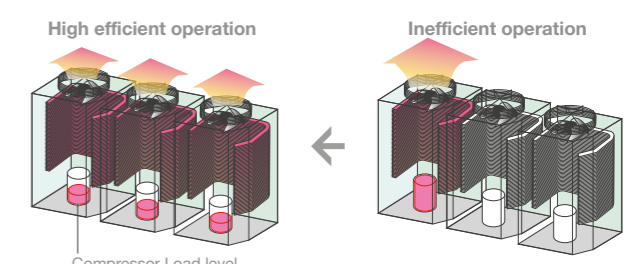
Ideal heat exchanger path control

Heat exchanger is split into top and bottom. Heat exchange efficiency is improved by optimum heat exchanger path refrigerant control. Refrigerant is more distributed at the top side heat exchanger with a large intake airflow.



Sophisticated operation control

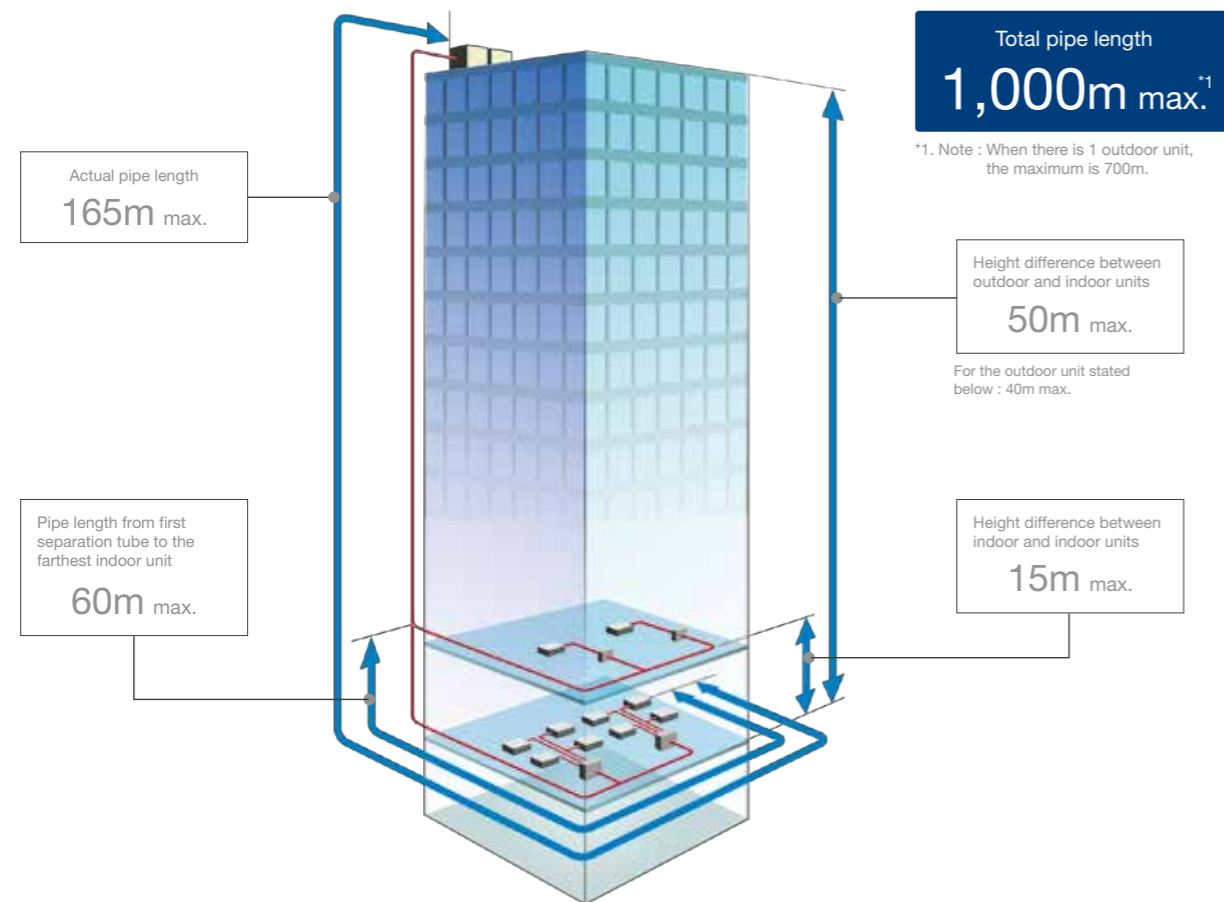
When multiple outdoor units are connected, sophisticated operation is performed by each compressor. Efficiency is improved by all compressors at part load and distributing refrigerant to all of the heat exchangers rather than to one compressor.



Features

Design Flexibility

Overall piping length 1,000m

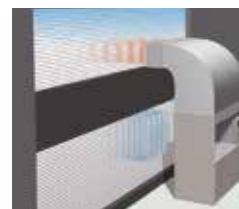


High static pressure of 80Pa

Large diameter fan and 3 phase DC motor has been utilized allowing an external static pressure of 80Pa. This allows outdoor units to be installed on balconies, etc. on each floor in high rise buildings.

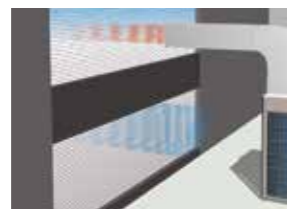
Powerful discharge with an external static pressure of 80Pa.

Previous model

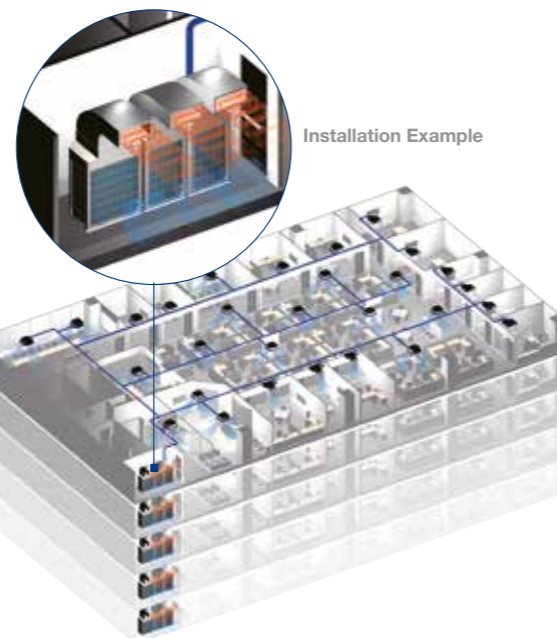


Large diameter fan and DC motor has been utilized allowing an external static pressure of 80Pa. This is approximately 2.6 times greater than the previous model.

V-II series

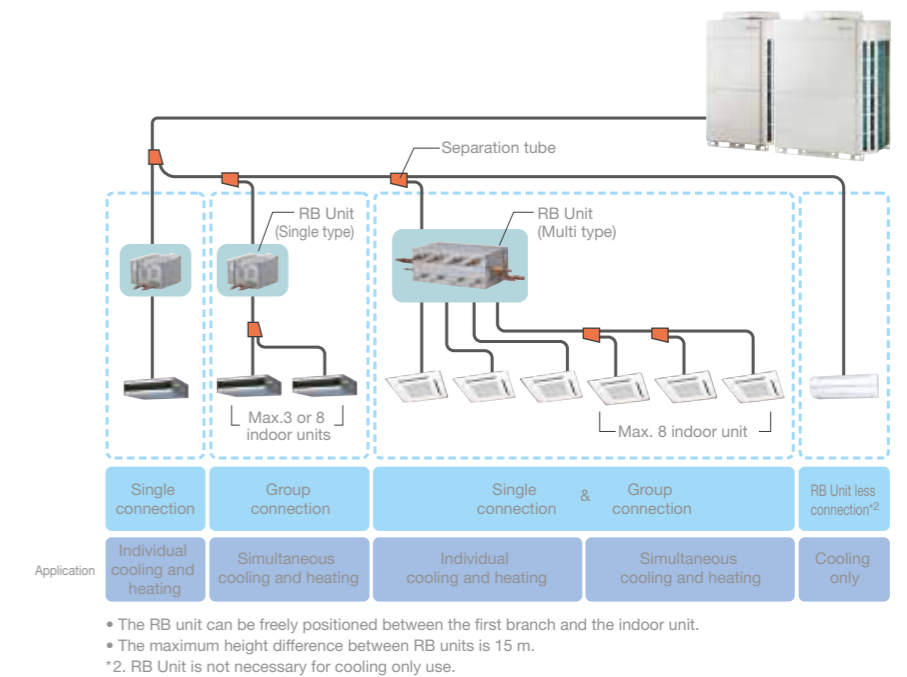


80 Pa
as standard



Flexible piping connection

A more flexible refrigerant piping work is possible by the use of various piping and RB Unit connections, for adjustments to the floor layout and building structure.



Easy Installation & Maintenance

Flexible installation of RB unit



- Small & slim design saves space
- A drain pipe is not required
- The control box position can be changed to meet the installation conditions

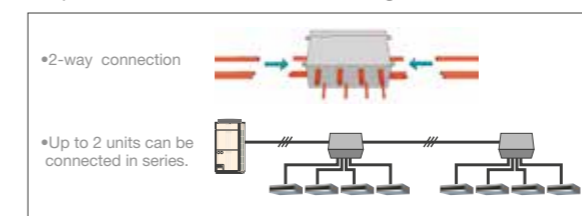


Installation possible from either side for freedom of the control box



Installation possible on the upper-side for use in narrow space

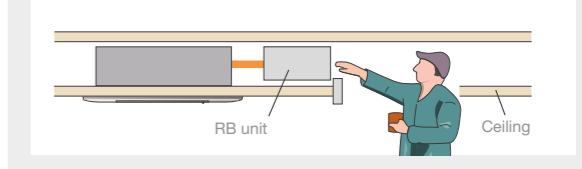
- Small design saves space
- A drain pipe is not required
- Simple installation series connection design



Easy to maintain in a narrow space






















- Maintenance can be performed from the side.
- Electric box can be temporarily fixed by sliding down.

- Parts can be replaced easily even at narrow space in the ceiling.



Outdoor Units Lineup

*Combinations other than the following are not recommended.

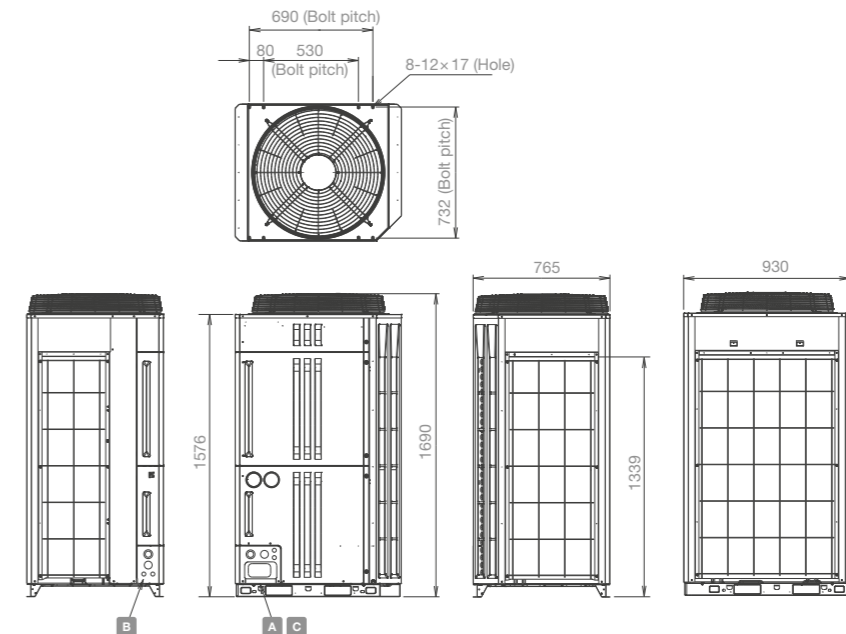
Space Saving Combination				
22.4kW (8HP)  AJYA72GALH UNIT: AJYA72GALH	28.0kW (10HP)  AJYA90GALH UNIT: AJYA90GALH	35.5kW (12HP)  AJY108GALH UNIT: AJY108GALH	40.0kW (14HP)  AJY126GALH UNIT: AJY126GALH	45.0kW (16HP)  AJY144GALH UNIT: AJY144GALH
50.4kW (18HP)  AJYA162GALH UNIT: AJYA90/A72GALH	56.0kW (20HP)  AJY180GALH UNIT: AJYA90/A90GALH	61.5kW (22HP)  AJY198GALH UNIT: AJY108/A90GALH	67.0kW (24HP)  AJY216GALH UNIT: AJY108/108GALH	73.0kW (26HP)  AJY234GALH UNIT: AJY144/A90GALH
78.5kW (28HP)  AJY252GALH UNIT: AJY144/108GALH	85.0kW (30HP)  AJY270GALH UNIT: AJY144/126GALH	90.0kW (32HP)  AJY288GALH UNIT: AJY144/144GALH	95.0kW (34HP)  AJY306GALH UNIT: AJY108/108/A90GALH	100.5kW (36HP)  AJY324GALH UNIT: AJY108/108/180GALH
106.5kW (38HP)  AJY342GALH UNIT: AJY144/108/A90GALH	112.0kW (40HP)  AJY360GALH UNIT: AJY144/108/108GALH	118.0kW (42HP)  AJY378GALH UNIT: AJY144/144/A90GALH	123.5kW (44HP)  AJY396GALH UNIT: AJY144/144/108GALH	130.0kW (46HP)  AJY414GALH UNIT: AJY144/144/126GALH
135.0kW (48HP)  AJY432GALH UNIT: AJY144/144/144GALH				

Energy Efficiency Combination				
44.8kW (16HP)  AJY144GALHH UNIT: AJYA72/A72GALH	62.4kW (22HP)  AJY198GALHH UNIT: AJY126/A72GALH	67.2kW (24HP)  AJY216GALHH UNIT: AJYA72/A72/A72GALH	72.8kW (26HP)  AJY234GALHH UNIT: AJYA90/A72/A72GALH	78.4kW (28HP)  AJY252GALHH UNIT: AJYA90/A90/A72GALH
84.0kW (30HP)  AJY270GALHH UNIT: AJYA90/A90/A90GALH	90.4kW (32HP)  AJY288GALHH UNIT: AJY126/A90/A72GALH	96.0kW (34HP)  AJY306GALHH UNIT: AJY126/A90/A90GALH	102.4kW (36HP)  AJY324GALHH UNIT: AJY126/126/A72GALH	108.0kW (38HP)  AJY342GALHH UNIT: AJY126/126/A90GALH
113.0kW (40HP)  AJY360GALHH UNIT: AJY144/126/A90GALH	120.0kW (42HP)  AJY378GALHH UNIT: AJY126/126/126GALH	125.0kW (44HP)  AJY396GALHH UNIT: AJY144/126/126GALH		

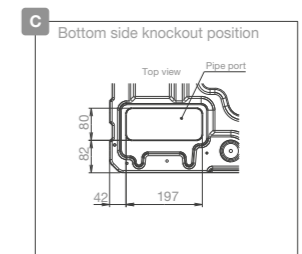
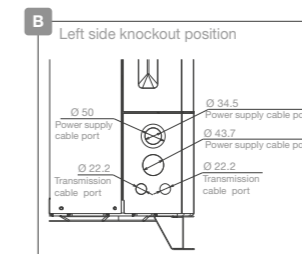
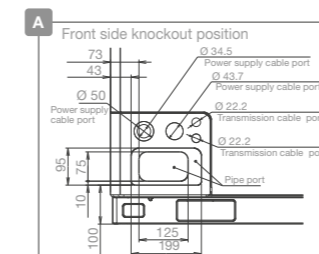
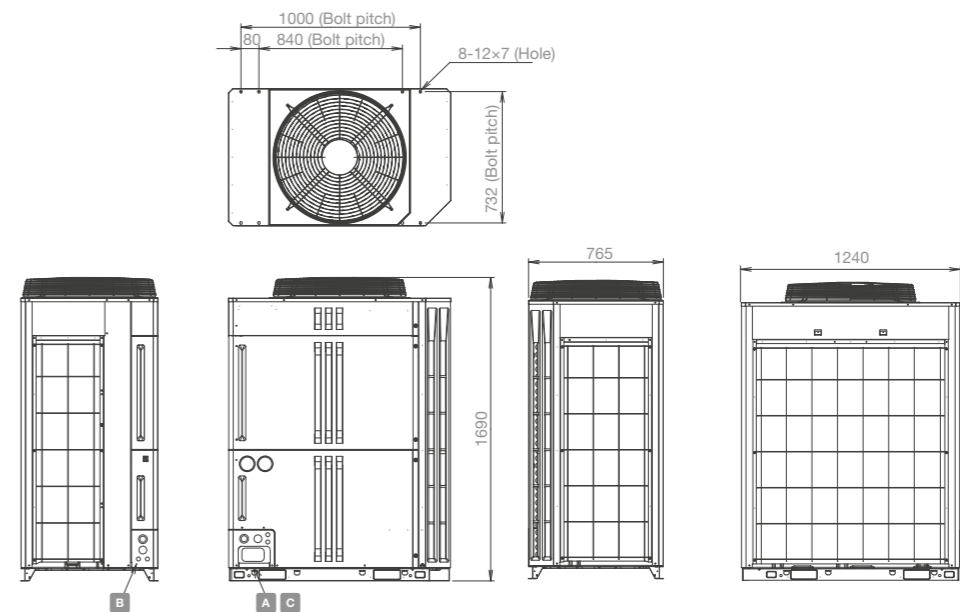
Dimensions

(Unit : mm)

8,10,12HP : AJYA72GALH / AJYA90GALH / AJY108GALH







14,16HP : AJY126GALH / AJY144GALH






Outdoor units specifications

Space Saving Combination

Rating Capacity Range	HP	8	10	12	14	16	18	20	22	24
										
Set model name		AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH
Unit1		AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJYA90GALH	AJYA90GALH	AJY108GALH	AJY108GALH
Unit 2										
Unit 3										
Maximum connectable indoor unit*1		15	16	17	21	24	27	30	32	35
Indoor unit connectable capacity	kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.2-75.6	28.0-84.0	30.8-92.2	33.5-100.5

Power source			3-phase 4 wire , 400 V, 50Hz								
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0
	Heating		25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0
Input power	Cooling	kW	5.45	7.11	9.75	11.34	13.61	12.56	14.22	16.86	19.50
	Heating		5.70	7.33	9.62	10.90	12.77	13.03	14.66	16.95	19.24
EER	Cooling	W/W	4.11	3.94	3.44	3.53	3.31	4.01	3.94	3.65	3.44
COP	Heating	W/W	4.39	4.30	3.90	4.13	3.92	4.34	4.30	4.07	3.90
Air flow rate		m³/h	11,100	11,100	11,100	13,000	13,000	11,100 × 2	11,100 × 2	11,100 × 2	11,100 × 2
Sound pressure level*2	Cooling	dB(A)	56	58	59	60	61	60	61	62	62
	Heating		58	59	61	61	61	62	62	63	64
Maximum external static pressure		Pa	80	80	80	80	80	80	80	80	80
Compressor motor output		kW	7.5	7.5	7.5	11.0	11.0	7.5 × 2	7.5 × 2	7.5 × 2	7.5 × 2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	930	1,240	1,240	930 × 2	930 × 2	930 × 2	930 × 2
	Depth		765	765	765	765	765	765	765	765	765
Weight		kg	262	262	262	286	286	262 × 2	262 × 2	262 × 2	262 × 2
Refrigerant charge		kg	11.8	11.8	11.8	11.8	11.8	11.8 × 2	11.8 × 2	11.8 × 2	11.8 × 2
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Discharge gas		15.88	19.05	19.05	22.22	22.22	22.22	22.22	28.58	28.58
	Suction gas		22.22	22.22	28.58	28.58	28.58	28.58	34.92	34.92	34.92
Operation range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21
List Price		£	5672	6203	7585	8864	10229	11875	12406	13788	15170






Energy Efficiency Combination

Rating Capacity Range	HP	16	22	24	26	28	30
							
Set model name		AJY144GALHH	AJY198GALHH	AJY216GALHH	AJY234GALHH	AJY252GALHH	AJY270GALHH
Unit1		AJYA72GALH	AJY126GALH	AJYA72GALH	AJYA90GALH	AJYA90GALH	AJYA90GALH
Unit 2		AJYA72GALH	AJYA72GALH	AJYA72GALH	AJYA72GALH	AJYA90GALH	AJYA90GALH
Unit 3							
Maximum connectable indoor unit*1		24	33	36	39	42	45
Indoor unit connectable capacity	kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.6	42.0-126.0



Power source			3-phase 4 wire , 400 V, 50Hz					
Capacity	Cooling	kW	44.8	62.4	67.2	72.8	78.4	84.0
	Heating		50.0	70.0	75.0	81.5	88.0	94.5
Input power	Cooling	kW	10.90	16.79	16.35	18.01	19.67	21.33
	Heating		11.40	16.60	17.10	18.73	20.36	21.99
EER	Cooling	W/W	4.11	3.72	4.11	4.04	3.99	3.94
COP	Heating	W/W	4.39	4.22	4.39	4.35	4.32	4.30
Air flow rate		m³/h	11,100 × 2	13,000 + 11,100	11,100 × 3	11,100 × 3	11,100 × 3	11,100 × 3
Sound pressure level*2	Cooling	dB(A)	59	61	61	62	62	63
	Heating		61	63	63	63	63	64
Maximum external static pressure		Pa	80	80	80	80	80	80
Compressor motor output		kW	7.5 × 2	11.0 + 7.5	7.5 × 3	7.5 × 3	7.5 × 3	7.5 × 3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930 × 2	1,240 + 930	930 × 3	930 × 3	930 × 3	930 × 3
	Depth		765	765	765	765	765	765
Weight		kg	262 × 2	286+262	262 × 3	262 × 3	262 × 3	262 × 3
Refrigerant charge		kg	11.8 × 2	11.8 × 2	11.8 × 3	11.8×3	11.8 × 3	11.8 × 3
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88
	Discharge gas		22.22	28.58	28.58	28.58	28.58	28.58
	Suction gas		28.58	34.92	34.92	34.92	34.92	34.92
Operation range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21
List Price		£	11344	14536	17016	17547	18078	18609

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

When cooling operation will be conducted at outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

26	28	30	32	34	36	38	40	42	44	46	48
											
AJY234GALH	AJY252GALH	AJY270GALH	AJY288GALH	AJY306GALH	AJY324GALH	AJY342GALH	AJY360GALH	AJY378GALH	AJY396GALH	AJY414GALH	AJY432GALH
AJY144GALH	AJY144GALH	AJY144GALH	AJY144GALH	AJY108GALH	AJY108GALH	AJY144GALH	AJY144GALH	AJY144GALH	AJY144GALH	AJY144GALH	AJY144GALH
AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY108GALH	AJY108GALH	AJY108GALH	AJY108GALH	AJY144GALH	AJY144GALH	AJY144GALH	AJY144GALH
39	42	45	48	50	53	57	60	63	64	64	64
36.5-109.5	39.3-117.7	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.7	53.3-159.7	56.0-168.0	59.0-177.0	61.8-185.2	65.0-195.0	67.5-202.5











3-phase 4 wire , 400 V, 50Hz											
73.0	78.5	85.0	90.0	95.0	100.5	106.5	112.0	118.0	123.5	130.0	135.0
81.5	87.5	95.0	100.0	106.5	112.5	119.0	125.0	131.5	137.5	145.0	150.0
20.72	23.36	24.95	27.22	26.61	29.25	30.47	33.11	34.33	36.97	38.56	40.83
20.10	22.39	23.67	25.54	26.57	28.86	29.72	32.01	32.87	35.16	36.44	38.31
3.52	3.36	3.41	3.31	3.57	3.44	3.50	3.38	3.44	3.34	3.37	3.31
4.05	3.91	4.01	3.92	4.01	3.90	4.00	3.91	4.00	3.91	3.98	3.92
13,000 + 11,100	13,000 + 11,100	13,000 × 2	13,000 × 2	11,100 × 3	11,100 × 3	13,000 + 11,100 × 2	13,000 + 11,100 × 2	13,000 × 2 + 11,100	13,000 × 2 + 11,100	13,000 × 3	13,000 × 3
63	63	64	64	63	64	64	65	65	65	65	66
63	64	64	64	65	66	65	66	65	66	66	66
80	80	80	80	80	80	80	80	80	80	80	80
11.0 + 7.5	11.0 + 7.5	11.0 × 2	11.0 × 2	7.5 × 3	7.5 × 3	11.0 + 7.5 × 2	11.0 + 7.5 × 2	11.0 + 7.5 × 2	11.0 + 7.5 × 2	11.0 × 3	11.0 × 3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240 + 930	1,240 + 930	1,240 × 2	1,240 × 2	930 × 3	930 × 3	1,240 + 930 × 2	1,240 + 930 × 2	1,240 × 2 + 930	1,240 × 2 + 930	1,240 × 3	1,240 × 3
765	765	765	765	765	765	765	765	765	765	765	765
286 + 262	286 + 262	286 × 2	286 × 2	286 × 2	286 × 3	286 × 3	286 + 262 × 2	286 + 262 × 2	286 + 262 × 2	286 × 3	286 × 3
11.8 × 2	11.8 × 2	11.8 × 2	11.8 × 2	11.8 × 2	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3
15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92
34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21
16432	17814	19093	20458	21373	22755	24017	25399	26661	28043	29322	30687

26	34	36	38	40	42	44
						
AJY288GALHH	AJY306GALHH	AJY324GALHH	AJY342GALHH	AJY360GALHH	AJY378GALHH	AJY396GALHH
AJY126GALH	AJY126GALH	AJY126GALH	AJY126GALH	AJY144GALH	AJY126GALH	AJY144GALH
AJYA90GALH	AJYA90GALH	AJY126GALH	AJY126GALH	AJY126GALH	AJY126GALH	AJY126GALH
AJYA72GALH	AJYA90GALH	AJYA72GALH	AJYA90GALH	AJYA90GALH	AJY126GALH	AJY126GALH
48	51	54	57	60	64	64
45.2-135.6	48.0-144.0	51.2-153.6	54.0-162.0	56.5-169.5	60.0-180.0	62.5-187.5

3-phase 4 wire , 400 V, 50Hz				
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Indoor Unit Lineup

12 Types, 55 Models, Capacity range from 1.1kW to 25.0kW

Capacity range (kW)		1.1	2.2	2.8	3.6	4.5	5.6
Model Code		4	7	9	12	14	18
Cassette	Compact Cassette	 AUXB04GALH	 AUXB07GALH	 AUXB09GALH	 AUXB12GALH	 AUXB14GALH	 AUXB18GALH
	Cassette						 AUXD18GALH
Duct	Low Static Pressure Duct		 ARXB07GALH	 ARXB09GALH	 ARXB12GALH	 ARXB14GALH	 ARXB18GALH
	Slim Duct (Drain pump internal)	 ARXD04GALH	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH
	Medium Static Pressure Duct						
	High Static Pressure Duct						
Floor	Floor (*Same as Ceiling models)				 ABYA12GATH	 ABYA14GATH	 ABYA18GATH
	Concealed Floor (*Same as Low Static Pressure Duct Models)		 ARXB07GALH	 ARXB09GALH	 ARXB12GALH	 ARXB14GALH	 ARXB18GALH
	Slim Concealed Floor (*Same as Slim Duct Models)	 ARXD04GALH	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH
Ceiling	Ceiling				 ABYA12GATH	 ABYA14GATH	 ABYA18GATH
Wall Mounted	Wall Mounted	 ASYA04GACH	 ASYA07GACH	 ASYA09GACH	 ASYA12GACH	 ASYA14GACH	 ASYA18GACH
	Wall Mounted (EEV External)	 ASYE04GACH	 ASYE07GACH	 ASYE09GACH	 ASYE12GACH	 ASYE14GACH	
	With this model, connection of EV kit is necessary.						

7.1	9.0	11.2	12.5	14.0	18.0	22.4	25.0
24	30	36	45	54	60	72	90
 AUXB24GALH							
 AUXD24GALH	 AUXA30GALH	 AUXA36GALH	 AUXA45GALH	 AUXA54GALH			
 ARXD24GALH							
 ARXA24GBLH	 ARXA30GBLH	 ARXA36GBLH	 ARXA45GBLH				
		 ARXC36GATH	 ARXC45GATH		 ARXC60GATH*	 ARXC72GATH*	 ARXC90GATH*
 ABYA24GATH							
 ARXD24GALH							
 ABYA24GATH	 ABYA30GATH	 ABYA36GATH	 ABYA45GATH	 ABYA54GATH			
 ASYA24GACH	 ASYA30GACH						

* ARXC60/72/90LATH cannot be connected to J-IIS and J-II series.

indoor units specifications



Model Name			Compact Cassette							
			AUXB04GALH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH	
Power Source			230v ~ 50Hz							
Capacity	UK Total Cooling	KW	0.80	1.60	2.10	2.70	3.30	4.20	5.30	
	UK Sensible Cooling		0.70	1.50	1.70	2.30	2.70	3.20	4.40	
	UK Heating		1.20	2.60	3.00	3.80	4.70	5.90	7.40	
	Nominal Cooling		1.10	2.20	2.80	3.60	4.50	5.60	7.10	
	Nominal Heating		1.30	2.80	3.20	4.10	5.00	6.30	8.00	
Input Power		Watts	23	25	25	29	35	36	84	
Airflow Rate	High	m3/hr	530	540	550	600	680	710	1,030	
	Med		420/450 htg/clg *1	450	450	530	590	580	830	
	Low		300/350 htg/clg*1	350	350	390	390	400	450	
Sound Pressure level	High	dB(A)	34	34	35	37	38	41	50	
	Med		28/30 htg/clg *1	30	30	34	34	35	44	
	Low		21/25 htg/clg *1	25	25	27	27	27	30	
Dimensions (H x W x D)		mm	245 x 570 x 570 (grille 50 x 700 x 700)							
Weight		kg	15					17		
Connection pipe dia	Liquid (flare)	inches (mm)	1/4 (6.35)					3/8 (9.52)		
	Gas (flare)		1/2 (12.7)					5/8 (15.88)		
List Price			£	tbc	857	872	894	944	980	1070



Model Name			Cassette					
			AUXD18GALH	AUXD24GALH	AUXA30GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power Source			230v ~50Hz					
Capacity	UK Total Cooling	KW	4.20	5.30	6.70	8.30	9.30	10.40
	UK Sensible Cooling		3.90	4.80	6.00	7.10	7.70	8.40
	UK Heating		5.90	7.40	9.30	11.60	13.00	14.90
	Nominal Cooling		5.60	7.10	9.00	11.20	12.50	14.00
	Nominal Heating		6.30	8.00	10.00	12.50	14.00	16.00
Input Power		Watts	39	46	59	80	99	119
Airflow Rate	High	m3/hr	1,150	1,280	1,600	1,800	1,900	2,000
	Med		940	1,040	1,300	1,300	1,370	1,370
	Low		870	870	1,100	1,100	1,100	1,100
Sound Pressure level	High	dB(A)	36	38	40	44	46	47
	Med		30	33	38	38	39	39
	Low		29	29	33	33	33	33
Dimensions (H x W x D)		mm	246 x 840 x 840		288 x 840 x 840 (grille 50 x 950 x 950)			
Weight		kg	22		27			
Connection pipe dia	Liquid (flare)	inches (mm)	3/8 (9.52)			3/4 (19.05)		
	Gas (flare)		5/8 (15.88)					
List Price		£	1028	1096	1157	1307	1382	1452

Specifications are based on the following conditions for all VRF indoor units:
Nominal Cooling: Indoor temperature of 27°CDB / 19°CWVB and outdoor temperature of 35°CDB / 24°CWVB
Nominal Heating: Indoor temperature of 20°CDB and outdoor temperature of 7°CDB
UK Cooling: indoor temperature 23°CDB / 16°CWVB and outdoor temperature 30°C
UK Heating: indoor temperature 20°CDB and outdoor temperature 0°C



Model Name			Low Static Pressure Duct / Concealed Floor					
			ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH	ARXB18GALH	
Power Source			230v ~ 50Hz					
Capacity	UK Total Cooling	KW	1.60	2.10	2.70	3.30	4.20	
	UK Sensible Cooling		1.30	1.70	2.20	2.90	3.40	
	UK Heating		2.60	3.00	3.70	4.70	5.90	
	Nominal Cooling		2.20	2.80	3.60	4.50	5.60	
	Nominal Heating		2.80	3.20	4.00	5.00	6.30	
Input Power		Watts	46	55	63	90	96	
Airflow Rate	High	m3/hr	370	440	590	800	890	
	Med		310	370	500	750	810	
	Low		280	340	450	700	730	
Static Pressure		Pa	0 to 50	0 to 50	0 to 50	0 to 50	0 to 50	
Standard static pressure			25	25	25	25	25	
Sound Pressure level	High	dB(A)	29	31	30	33	36	
	Med		26	29	28	32	34	
	Low		24	27	25	30	30	
Dimensions (H x W x D)		mm	217 x 663 x 595		217 x 953 x 595			
Weight		kg	15			22		23
Connection pipe dia	Liquid (flare)	inches (mm)	1/4 (6.35)				3/8 (9.52)	
	Gas (flare)		1/2 (12.7)				5/8 (15.88)	
List Price		£	604	620	704	743	788	



Model Name			Slim Duct / Slim Concealed Floor						
			ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH
Power Source			230v ~50Hz						
Capacity	UK Total Cooling	KW	0.80	1.60	2.10	2.70	3.30	4.20	5.30
	UK Sensible Cooling		0.70	1.50	1.80	2.30	2.90	3.50	4.90
	UK Heating		1.20	2.60	3.00	3.70	4.70	5.90	7.40
	Nominal Cooling		1.10	2.20	2.80	3.60	4.50	5.60	7.10
	Nominal Heating		1.30	2.80	3.20	4.00	5.00	6.30	8.00
Input Power		Watts	38	44	50	54	92	83	122
Airflow Rate	High	m3/hr	510	550	600	600	800	940	1,330
	Med		400/470 htg/clg *1	490	550	510	710	840	1,240
	Low		320/440 htg/clg *1	440	480	450	610	750	1,100
Static Pressure		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure			25	25	25	25	25	25	25
Sound Pressure level	High	dB(A)	26	28	29	30	34	34	35
	Med		21/25 htg/clg	25	26	27	32	32	32
	Low		20/22 htg/clg	22	24	24	28	28	29
Dimensions (H x W x D)		mm	198 x 700 x 620				198 x 900 x 620	198 x 1,100 x 620	
Weight		kg	17		18			22	26
Connection pipe dia	Liquid (flare)	inches (mm)	1/4 (6.35)					3/8 (9.52)	
	Gas (flare)		1/2 (12.7)					5/8 (15.88)	
List Price		£	tbc	635	651	740	780	828	866

*1: This value is under cooling operation.



Model Name			Medium Static Pressure Duct			
			ARXA24GBLH	ARXA30GBLH	ARXA36GBLH	ARXA45GBLH
Power Source			230v ~ 50Hz			
Capacity	UK Total Cooling	KW	5.30	6.70	8.30	9.30
	UK Sensible Cooling		4.70	5.60	7.00	7.90
	UK Heating		7.40	9.30	11.60	13.00
	Nominal Cooling		7.10	9.00	11.20	12.50
	Nominal Heating		8.00	10.00	12.50	14.00
Input Power		Watts	94	108	194	240
Airflow Rate	High	m3/hr	1,280	1,410	1,840	1,970
	Med		990	1,280	1,600	1,860
	Low		840	1,150	1,470	1,640
Static Pressure		Pa	0 to 150	0 to 150	0 to 150	0 to 150
Standard static pressure			40	50	50	60
Sound Pressure level	High	dB(A)	31	34	37	41
	Med		27	32	35	38
	Low		23	29	33	36
Dimensions (H x W x D)		mm	270 x 1,135 x 700			
Weight		kg	36	40		
Connection pipe dia	Liquid (flare)	inches (mm)	1/4 (6.35)			
	Gas (flare)		5/8 (15.88) 3/4 (19.05)			
List Price		£	825	942	1061	1179

indoor units specifications



Model Name			High Static Pressure Duct				
			ARXC36GATH	ARXC45GATH	ARXC60GATH*	ARXC72GATH*	ARXC90GATH*
Power Source			230v ~ 50Hz				
Capacity	UK Total Cooling	KW	8.30	9.30	13.40	16.60	18.60
	UK Sensible Cooling		7.40	9.20	12.20	15.10	15.60
	UK Heating		11.60	13.00	18.60	23.30	26.00
	Nominal Cooling		11.20	12.50	18.00	22.40	25.00
	Nominal Heating		12.50	14.00	20.00	25.00	28.00
Input Power		Watts	405	715	730	1100	1250
Airflow Rate	High	m3/hr	2,600	3,500	3,500	3,900	4,300
	Med		1,950	3,000	3,000	3,300	4,000
	Low		1,450	2,460	2,460	3,000	3,500
Static Pressure		Pa	100 to 200	100 to 250	100 to 250	50 to 300	100 to 300
Standard static pressure			100	100	100	260	250
Sound Pressure level	High	dB(A)	45	49	49	51	53
	Med		38	45	45	48	51
	Low		32	42	42	45	49
Dimensions (H x W x D)		mm	400 x 1,050 x 500			450 x 1,550 x 700	
Weight		kg	43	46		83	85
Connection pipe dia	Liquid	inches (mm)	3/8 (6.35) Flare			1/2 (12.7) Brazed	
	Gas		3/4 (19.05) Flare			7/8 (22.22) Brazed	
List Price		£	1273	1414	1556	1711	1882



Model Name			Floor / Ceiling			
			ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH
Power Source			230v ~ 50Hz			
Capacity	UK Total Cooling	KW	2.70	3.30	4.20	5.30
	UK Sensible Cooling		2.40	3.00	3.80	4.20
	UK Heating		3.70	4.70	5.90	7.40
	Nominal Cooling		3.60	4.50	5.60	7.10
	Nominal Heating		4.00	5.00	6.30	8.00
Input Power		Watts	30	42	74	99
Airflow Rate	High	m3/hr	660	780	1,000	1,000
	Med		570	640	720	820
	Low		490	550	580	680
Sound Pressure level	High	dB(A)	36	40	46	47
	Med		32	36	39	42
	Low		28	34	35	37
Dimensions (H x W x D)		mm	199 x 990 x 655			
Weight		kg	25	26	26	27
Connection pipe dia	Liquid (flare)	inches (mm)	1/4 (6.35)		3/8 (9.52)	
	Gas (flare)		1/2 (12.7)		5/8 (15.88)	
List Price		£	829	869	922	962



Model Name			Ceiling			
			ABYA30GATH	ABYA36GATH	ABYA45GATH	ABYA54GATH
Power Source			230v ~ 50Hz			
Capacity	UK Total Cooling	KW	6.70	8.30	9.30	10.40
	UK Sensible Cooling		6.10	6.90	7.90	8.90
	UK Heating		9.30	11.60	13.00	14.90
	Nominal Cooling		9.00	11.20	12.50	14.00
	Nominal Heating		10.00	12.50	14.00	16.00
Input Power		Watts	66	85	131	180
Airflow Rate	High	m3/hr	1,630	1,690	2,010	2,270
	Med		1,370	1,400	1,600	1,780
	Low		1,140	1,170	1,230	1,280
Sound Pressure level	High	dB(A)	42	45	48	51
	Med		38	38	42	45
	Low		33	34	35	36
Dimensions (H x W x D)		mm	240 x 1,660 x 700			
Weight		kg	46		48	
Connection pipe dia	Liquid (flare)	inches (mm)	3/8 (9.52)		3/8 (9.52)	
	Gas (flare)		5/8 (15.88)		7/8 (19.05)	
List Price		£	1075	1187	1798	2406



Model Name			Wall Mounted				
			ASYA04GACH	ASYA07GACH	ASYA09GACH	ASYA12GACH	ASYA14GACH
Power Source			230v ~ 50Hz				
Capacity	UK Total Cooling	KW	0.80	1.60	2.10	2.70	3.30
	UK Sensible Cooling		0.70	1.60	1.90	2.30	2.80
	UK Heating		1.20	2.60	3.00	3.80	4.70
	Nominal Cooling		1.10	2.20	2.80	3.60	4.50
	Nominal Heating		1.30	2.80	3.20	4.10	5.00
Input Power		Watts	13	17	18	22	34
Airflow Rate	High	m3/hr	450	490	500	560	670
	Med		370/440 htg/clg *1	450	450	480	490
	Low		320/420 htg/clg *1	370/420 htg/clg *1	370/420 htg/clg *1	420	420
Sound Pressure level	High	dB(A)	33	35	36	39	44
	Med		27/32 htg/clg *1	33	33	35	37
	Low		22/31 htg/clg *1	27/31 htg/clg *1	27/31 htg/clg *1	31	32
Dimensions (H x W x D)		mm	275 x 790 x 215				
Weight		kg	9				
Connection pipe dia	Liquid (flare)	inches (mm)	1/4 (6.35)				
	Gas (flare)		1/2 (12.7)				
		EV Kit	N/A				
List Price		£	tbc	515	525	539	559

*1 : This value is under cooling operation.



Model Name			Wall Mounted				
			ASYE04GACH	ASYE07GACH	ASYE09GACH	ASYE12GACH	ASYE14GACH
Power Source			230v ~ 50Hz				
Capacity	UK Total Cooling	KW	0.80	1.60	2.10	2.70	3.30
	UK Sensible Cooling		0.70	1.60	1.90	2.30	2.80
	UK Heating		1.20	2.60	3.00	3.80	4.70
	Nominal Cooling		1.10	2.20	2.80	3.60	4.50
	Nominal Heating		1.30	2.80	3.20	4.10	5.00
Input Power		Watts	12	15	16	21	34
Airflow Rate	High	m3/hr	450	490	500	460	680
	Med		370/440 htg/clg *1	450	450	480	490
	Low		300/420 htg/clg *1	370/420 htg/clg *1	370/420 htg/clg *1	420	420
Sound Pressure level	High	dB(A)	32	34	35	38	43
	Med		26/31 htg/clg *1	32	32	34	35
	Low		19/30 htg/clg *1	26/30 htg/clg *1	26/30 htg/clg *1	30	30
Dimensions (H x W x D)		mm	275 x 790 x 215				
Weight		kg	9				
Connection pipe dia	Liquid (flare)	inches (mm)	1/4 (6.35)				
	Gas (flare)		1/2 (12.7)				
		EV Kit	N/A				
List Price		£	tbc	543	553	568	589

*1 : This value is under cooling operation.



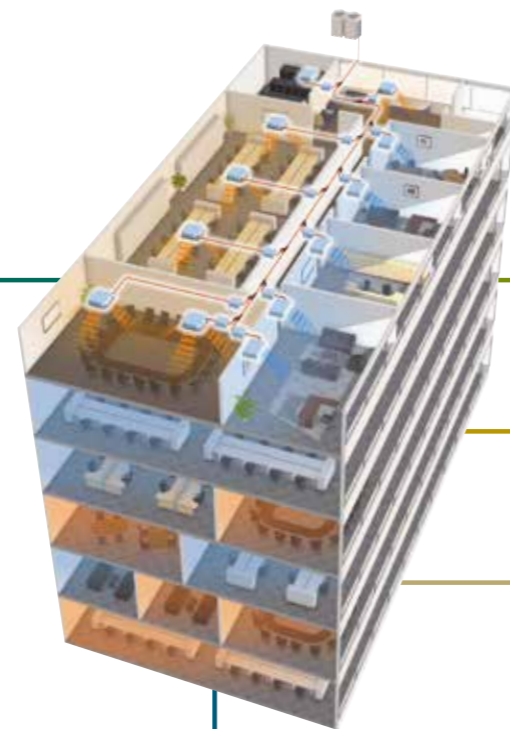
Model Name			Wall Mounted Large		
			ASYA18GACH	ASYA24GACH	ASYA30GACH
Power Source			230v ~ 50Hz		
Capacity	UK Total Cooling	KW	4.20	5.30	5.90
	UK Sensible Cooling		3.50	4.60	5.10
	UK Heating		5.90	7.40	8.40
	Nominal Cooling		5.60	7.10	8.00
	Nominal Heating		6.30	8.00	9.00
Input Power		Watts	32	60	91
Airflow Rate	High	m3/hr	840	1,100	1,240
	Med		770	910	980
	Low		690	730	770
Sound Pressure level	High	dB(A)	41	48	52
	Med		39	43	45
	Low		35	35	35
Dimensions (H x W x D)		mm	320 x 998 x 228		
Weight		kg	15		
Connection pipe dia	Liquid (flare)	inches (mm)	3/8 (9.52)		
	Gas (flare)		5/8 (15.88)		
List Price		£	581	638	697

Control system overview

User's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.



For All AIRSTAGE™ series



Air Conditioning Individual Control

Wired Remote Controller (Touch panel)
UTY-RNRY



Wired Remote Controller
NEW UTY-RLRY



Simple Remote Controller
UTY-RSKY



Simple Remote Controller
UTY-RHKY
Without operation mode

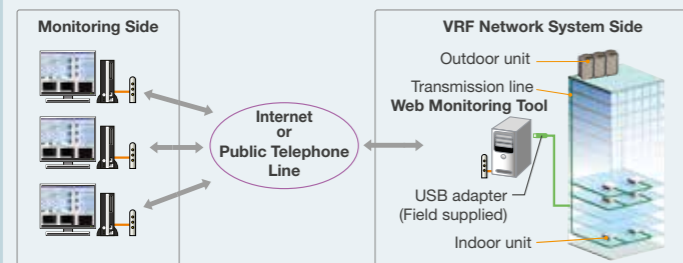


Wireless Remote Controller
UTY-LNHY



Service & Maintenance Tool

Web Monitoring System **Software**
UTY-AMGX



Service Tool **Software**
UTY-ASGX



Air Conditioning Centralized Control

System Controller **Software**

UTY-APGX
NEW UTY-ALGX (Lite edition)

USB Adaptor *2

(Field supplied)



Internet or Public Telephone Line



Remote/Monitoring side

Touch Panel Controller
UTY-DTGY



Central Remote Controller
UTY-DCGY



Group Remote Controller
UTY-CGGY

Network Converter
UTY-VGGXZ1



Converter / Adaptor (for external device)

BACnet® Gateway **Software**

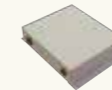
UTY-ABGX

USB Adaptor *2

(Field supplied)



Network Converter (BMS/LONWORKS®)
UTY-VLGX



KNX® Interface
FJ-RC-KNX-1i



MODBUS® Interface
FJ-RC-MBS-1



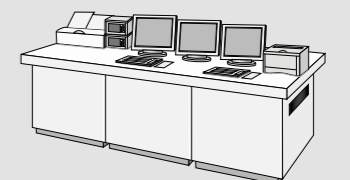
Wireless LAN Interface
NEW FJ-RC-WIFI-1



External Switch Controller
UTY-TEKX



BMS/BAS¹



BMS, Home automation system



Internet device



Card-key

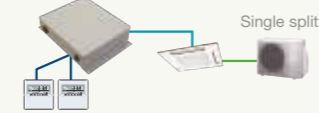
(Field supplied)

*1. BMS/BAS: Building Management System/Building Automation System

*2. USB Adaptor: Echelon® U10 USB Network Interface

Converter / Adaptor (for system expansion)

Network Converter
UTY-VGGXZ1



Signal Amplifier
UTY-VSGXZ1



Comparison table of controllers

Item		Wired Remote Controller (Touch Panel)	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller *1	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller (Software) (Lite)	System Controller (Software)
Model name		UTY-RNRY	UTY-RLRY	UTY-RSKY	UTY-RHKY	UTY-LNHY	UTY-CGGY	UTY-DCGY	UTY-DTGY	UTY-ALGX	UTY-APGX
Max. controllable remote controller groups		1	1	1	1	1	8	100	400	400	1600
Max. controllable indoor units		16	16	16	16	16	128	100	400	400	1600
Max. controllable groups		-	-	-	-	-	-	16	400	400	1600
Air conditioning control function	On / Off	●	●	●	●	●	●	●	●	●	●
	Operating mode setting	●	●	●	●	●	●	●	●	●	●
	Fan speed setting	●	●	●	●	●	●	●	●	●	●
	Room temp. setting	●	●	●	●	●	●	●	●	●	●
	Room temp. set point limitation	●	●	-	-	-	-	●	●	●	●
	Test operation	●	●	●	-	●	-	●	●	-	-
	Up/down air direction flap setting	●	●	-	-	●	-	●	●	●	●
	Right/left air direction flap setting	●	●	-	-	●	-	●	●	●	●
	Group setting	-	-	-	-	-	-	●	●	●	●
	RC prohibition	-	-	-	-	-	-	●	●	●	●
	Anti freeze setting	●	-	-	-	-	-	●	●	●	●
	Economy mode setting	●	●	-	-	●	-	●	●	●	●
Display	Failure	●	●	●	●	-	●	●	●	●	●
	Defrosting	●	●	●	●	-	-	●	●	●	●
	Current time	●	●	-	-	●	●	●	●	●	●
	Day of week	●	●	-	-	-	●	-	●	●	●
	R.C. prohibition	●	●	●	●	-	●	●	●	●	●
	Cooling/heating priority	●	●	●	●	-	●	●	●	●	●
	Address display	●	●	●	●	-	●	●	●	●	●
	Room temp	●	-	-	-	-	-	-	-	-	-
	Multi language	●	-	-	-	-	-	●	●	●	●
	Summer time	●	-	-	-	-	-	●	●	●	●
	Name registration	●	-	-	-	-	-	●	●	●	●
	Backlight	●	-	●	●	-	-	●	●	-	-
	2D Floor Layout/3D Building Display	-	-	-	-	-	-	-	-	-	●
	Schedule timer	Period	Week	Week	-	-	Week	Week	Year	Year	Year
Timer	On/off timer	On/off, Temp, Mode, Times per day	8	4	-	-	4	20	20	144	144
	Sleep timer		●	●	-	-	-	-	-	-	-
	Program timer		-	-	-	-	-	-	-	-	-
	Auto off timer		●	●	-	-	-	-	-	-	-
	Day off		●	●	-	-	-	●	●	●	●
	Min. unit of timer setting (Minutes)		10 · 30	30	30	30	5	10	10	10	10
	Status monitoring system		-	-	-	-	-	●	●	●	●
Control	Electricity charge apportionment		-	-	-	-	-	-	-	○	○
	Error history		●	●	●	●	-	●	●	●	●
	Emergency stop		-	-	-	-	-	● *2	● *2	-	-
	Remote management		-	-	-	-	-	-	-	○	○
	Energy saving management		-	-	-	-	-	-	-	○	○
	E-mail notification for malfunction		-	-	-	-	-	-	-	●	●
	Key lock		● Child Lock	● Child Lock	-	-	-	● Child Lock	● Password Setting	● Password Setting	● Password Setting

*1 "Operation mode" setting is not available for this model.

*2 This function is available only through external input. control.

Supported: ● Supported Soon: ○ Not Supported: -

Wired Remote Controller (Touch Panel) : UTY-RNRY

Easy operation by high-definition large STN-LCD touch panel screen

- Easy finger touch operation with LCD panel
- Built-in weekly/Daily timer(ON/OFF,Temp.,Mode)
- Backlight enables easy operation in a darkened room
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)
- 2-wire type



Max. controllable
16
Indoor units

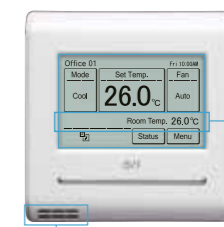
High performance and compact size

In addition to the individual control, various energy saving controls can be realized using one remote controller only.



Accurate and comfortable control

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.



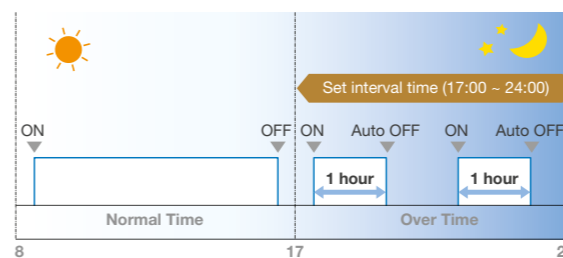
Room temperature sensor

Room temperature display

Various energy saving control

Auto OFF timer

- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Can be set off time 30 ~ 240 minutes

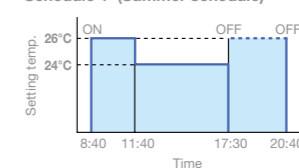


Ex.) At interval time hour (17:00 to 24:00) to prevent forgetting to turn off
Set off time : 1 hour

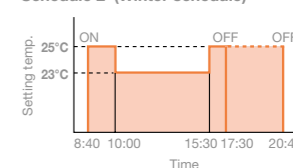
2 schedules Weekly Timer

- 2 schedules such as for the summer and winter can be set.
- 8 setting changeable per day of week (Setting items: On/Off, Temperature, Mode, Time)

Schedule 1 (Summer schedule)



Schedule 2 (Winter schedule)



Set Temperature Auto Return

The setting temperature automatically returns to the previous setting temperature. The time range in which the set temperature can be changed is 10 to 120 minutes.

Set Temperature Upper and Lower Limit Setting

The set temperature range can be set for each operation mode. (Cooling / Heating / Auto)

Specifications

Model Name	UTY-RNRY
Power Supply	DC 12V
Dimensions (HxVxD) mm	120x120x20.4
Weight (g)	220
List Price	200

DC12V is supplied by the indoor unit.

NEW

Wired Remote Controller : UTY-RLRY


Available Summer 2014

- Various timer setup (ON / OFF / WEEKLY) are possible.
- The room temperature can be controlled by detecting the temperature accurately with Built-in thermo sensor.
- When a failure occurs, the error code is displayed.
- Error history. (Last 16 error codes can be accessed.)
- 2-wire type

Max. controllable

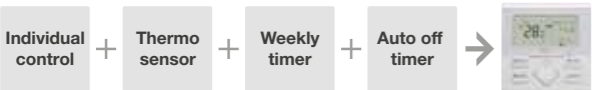
16

Indoor units



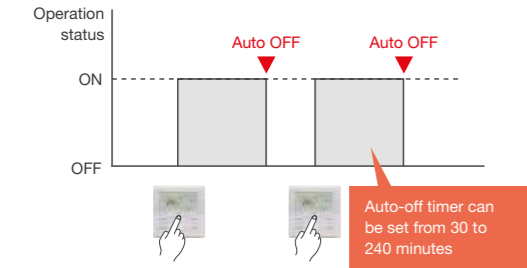
High performance and compact size

In addition to the individual control, weekly timer, and various energy saving controls can be realized using only one remote controller.



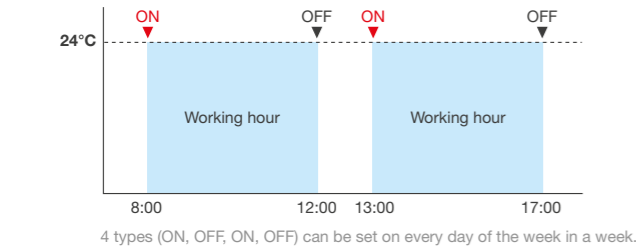
Auto-off timer

- The indoor unit automatically turns off after a set time has passed.



Weekly timer function

- Not only time setting On / Off, but also setting of the operation mode and set temperature can be set by Weekly timer function.



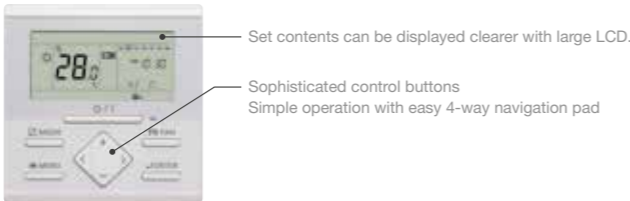
Specifications

Model Name	UTY-RLRY
Power Supply	DC 12V
Dimensions (HxVxD) mm	120x120x17
Weight (g)	170
List Price	POA

DC12V is supplied by the indoor unit.

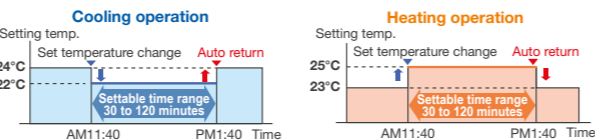
High visibility and easy operation

- "Mode", "Set Temp", and "Fan" are displayed at large size on the top screen.
- Each function to be set is indicated by an icon.
- Control guide is displayed and operation is simple and straightforward.



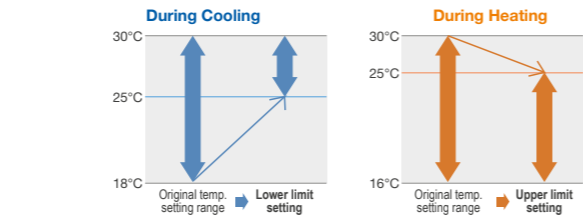
Set temperature auto return

- The setting temperature automatically returns to the previously set temperature.
- The time range in which the set temperature can be changed is 30 to 120 minutes.



Set temperature upper and lower limit setting

- The set temperature range can be set for each operation mode. (Cooling / Heating / Auto)



Wired Remote Controller : UTY-RNKY

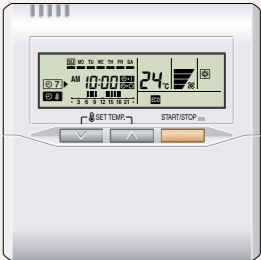
Max. controllable

16

Indoor units

The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

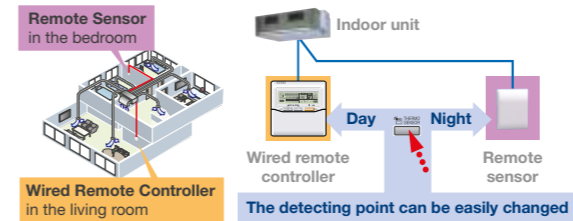
- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.



Accurate and comfortable

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller. This new wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.

Example of changing sensor



Displayed temperature is set temperature.

Built-in timers

Weekly timer: Possible to set ON/OFF time to operate twice each day of the week.

Setback timer: Possible to set temperature for two times spans and for each day of the week.

At "Weekly timer" + "Set back timer" setup

Diagnosis check function

Two methods are available for determining the cause of failure in the event of a malfunction occurs:

Simple installation

Components are compatible with standard switch boxes. Flat back surface allows to be installed wherever it is needed.

Simple Remote Controller :

UTY-RSKY / UTY-RHKY (Without operation mode)

Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.

Max. controllable

16

Indoor units



User-friendly operation

- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Background light enables easy operation in a darkened room.
- Following an error display, diagnostics can be carried out on the controller.



Functions

Model	UTY-RSKY	UTY-RHKY
On /Off	●	●
Fan Control	●	●
Operation Mode	●	- *1
Room Temp. Setting	●	●

*1: "Operation Mode" setting is not available. It is recommended to use together with other type of controller.

Specifications

Model Name	UTY-RNKY	UTY-RSKY	UTY-RHKY
Power Source	DC 12V	DC 12V	DC 12V
Dimensions (HxVxD) mm	120x120x18	120x75x14	120x75x14
Weight (g)	160	90	90
List Price	100	80	75

DC12V is supplied by the indoor unit.

Wireless Remote Controller : UTY-LNHY



Max. controllable
16
Indoor units

Selectable
4
daily timers

Simple and sophisticated operations with a choice of 4 daily timers

•A single controller controls up to 16 indoor units.

Built-in timers

Select from 4 different timer programs:

On / Off / Program / Sleep

Program timer: The program timer operates the ON and OFF timer once within a 24 hour period.

Sleep timer: The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

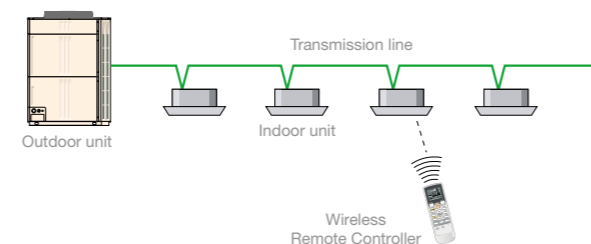
Easy installation and operation

•Code selector switch prevents indoor unit mix-up. (Up to 4 codes can be set.)

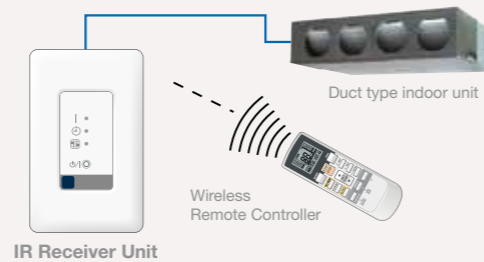
•Wide and precise transmitting range.

System addressing

During installation work, system addressing can be performed using the Wireless Remote Controller, thus eliminating manual switch setting.

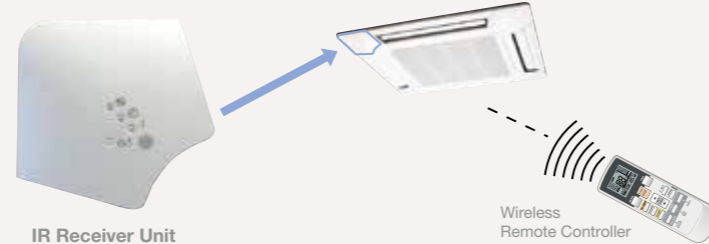


IR Receiver Unit : UTB-YWC



Necessary to control for all duct type by Wireless Remote Controller

IR Receiver Unit : UTY-LRHYB1



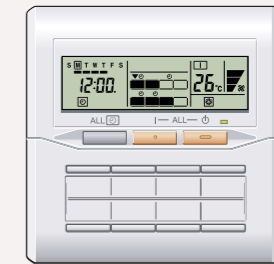
Cassette type indoor unit can be controlled with Wireless Remote Controller

Specifications

Model Name	UTY-LNHY	UTB-YWC	UTY-LRHYB1
Battery	1.5V (R03/LR03/AAA) x 2	DC 12V	DC 12V
Dimensions (HxWxD) mm	170x56x19	145x90x30	193.9x193.9x31.2
Weight (g)	85	150	140
List Price	45	73	73

DC12V is supplied by the indoor unit.

Group Remote Controller : UTY-CGGY



Max. controllable
64
group R.C. in a VRF network system

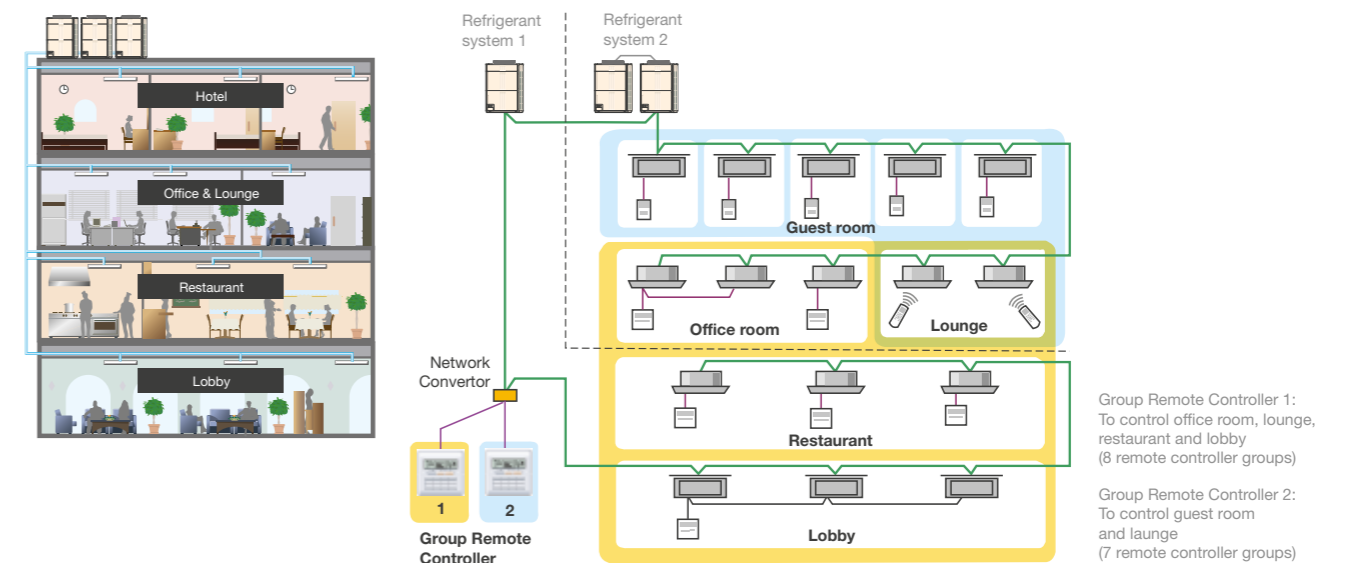
Max. controllable
8
remote controller groups

Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.
- Network Converter is required to connect Group Remote Controllers to a VRF network system. (Network Converter allows up to 4 Group Remote Controllers)

Control up to 8 remote controller groups

•Single Group Remote Controller controls and monitors up to 8 remote controller groups.



High performance and compact size

ON / OFF, Operating mode, Room temperature and Fan speed setting can be controlled / monitored centrally or individually.



Built-in weekly timers

The weekly timer is provided as a standard function.

1. The timer can be set up for up to 4 times per day. (On / Off, operating mode, set temperature)
2. Allows separate settings for each day of the week.

Specifications

Model Name	UTY-CGGY
Power Supply	DC 12V
Dimensions (HxWxD) mm	120x120x18
Weight (g)	200
List Price	140

DC12V is supplied by the indoor unit.

Central Remote Controller : UTY-DCGY

Central Remote Controller fits small- and medium-sized buildings and tenants.

- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- High visibility and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages like English, Chinese, French, German, Spanish, Russian, Polish.
- 2-wire type

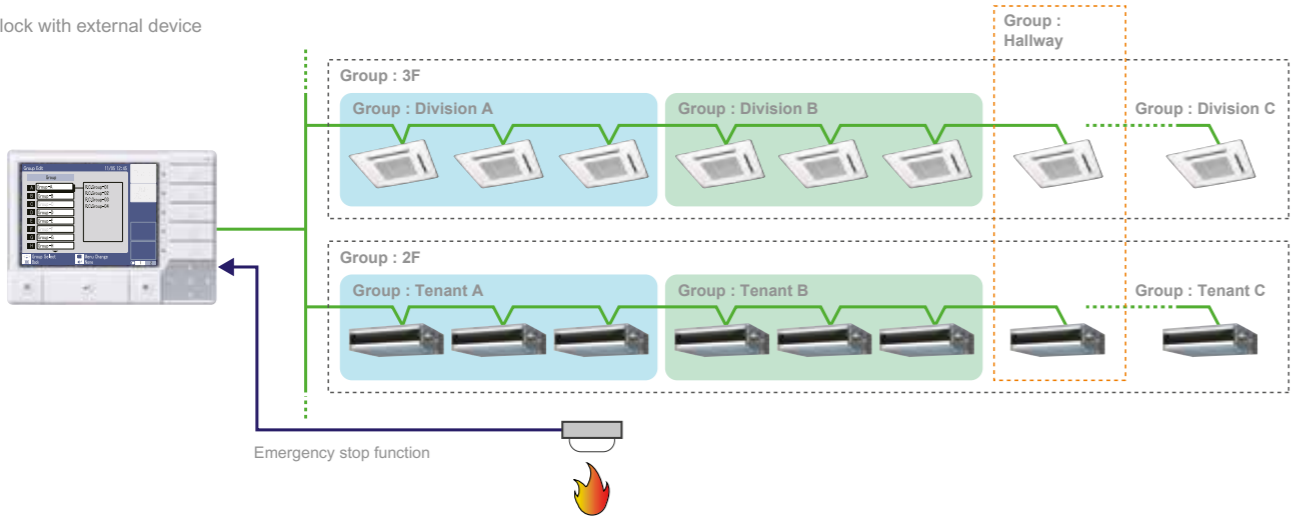


Max.
controllable
100
Indoor units

Max.
controllable
16
groups

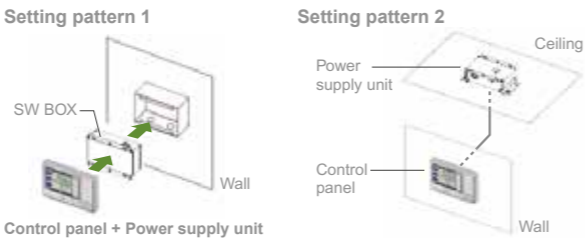
System overview

- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



Easy Installation

- The control panel and power supply unit can be installed separately.
- For flexibility in installation, the Control panel can be built into the wall or fix on the wall.



Functions

- Diverse control of indoor units
- Weekly timer
- Automatic clock adjustment
- Error history

Specifications

Model Name	UTY-DCGY	
	Control Panel	Power Supply Unit
Power Supply	DC 5 V	100-240V, 50-60Hz, Single Phase
Dimensions (HxVxD) mm	120x162x25.7	99x135x39.2
Weight (g)	308	355
List Price	1685	

Packing List	Control Panel / Power Supply Unit / Connecting cable, etc.
--------------	--

Touch Panel Controller : UTY-DTGY

- Large-sized 7.5-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- No additional component is required for installation
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.
- 2-wire type



Max.
controllable
400
Indoor units

Easy operation

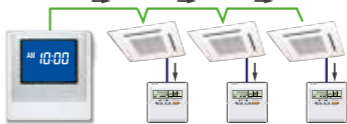
- Wide range of simple-to-understand icons
- Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon
- Up-to-date status display
- Background color identifies current control operation blue for monitoring, green for operational control

Functions



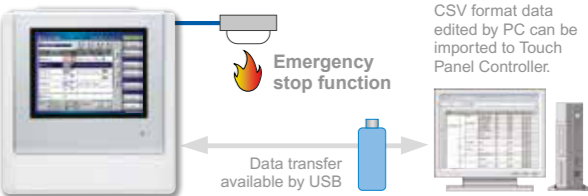
Automatic clock adjustment

The time setting of each controller can be set in batch automatically.



Versatility

- **Emergency stop function:** Air conditioner can be turned off through the external input control
- The stored data can be transferred via USB port
- CSV format data edited by PC can be imported to Touch Panel Controller.



Easy installation

- Touch Panel Controller is easily mounted to the wall.
- Flat back surface allows to be installed wherever it is needed.
- No additional component is required for installation.



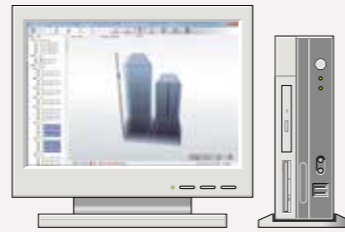
Specifications

Model Name	UTY-DTGY
Power Supply	100-240V, 50-60Hz, Single Phase
Dimensions (HxVxD) mm	260x246x54
Weight (g)	2,150
Interface	USB 2
List Price	3180

System Controller : UTY-APGX Software

System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)



Max. controllable
4
VRF network systems

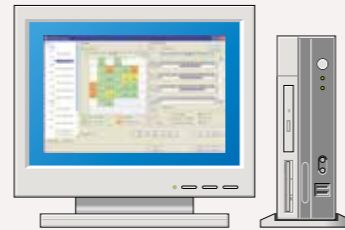
Max. controllable
400
outdoor units

Max. controllable
1,600
indoor units

System Controller Lite : UTY-ALGX Software NEW

System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings.

- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)



Max. controllable
1
VRF network systems

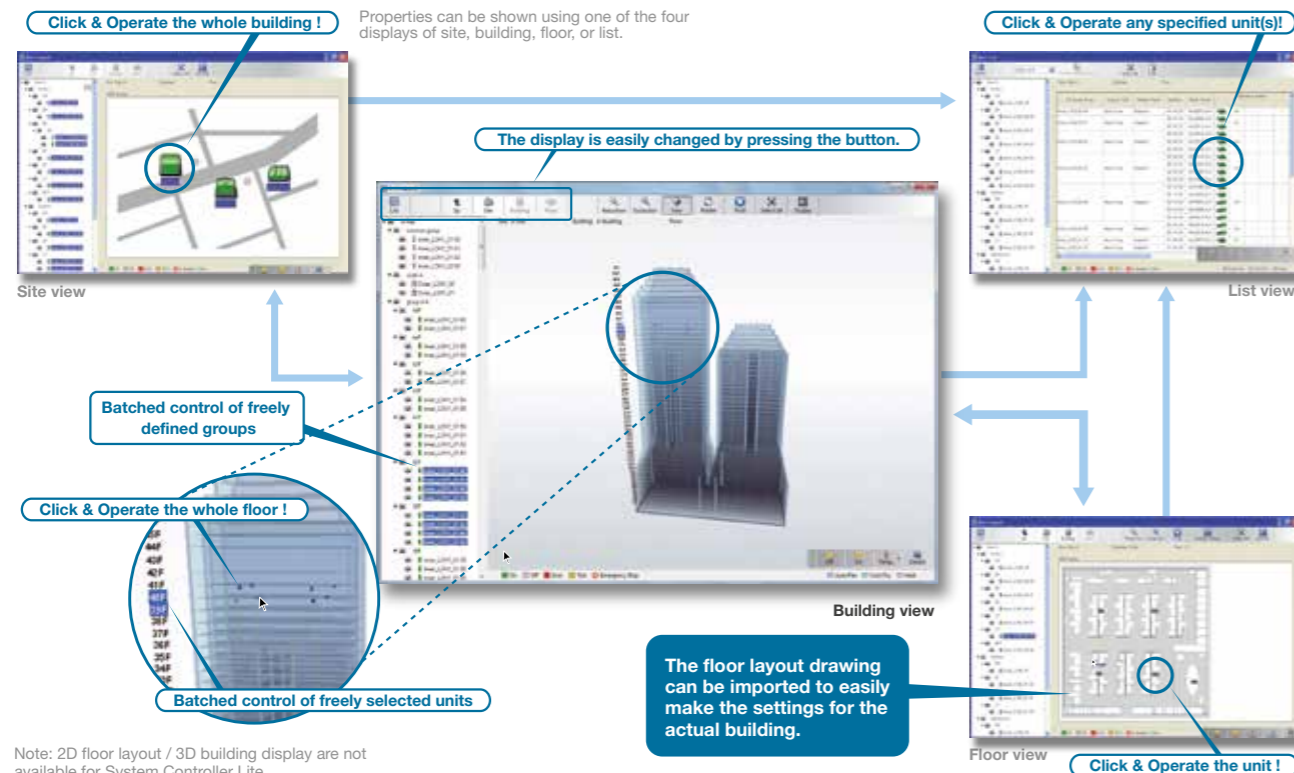
Max. controllable
100
outdoor units

Max. controllable
400
indoor units

High visibility and Easy operation

- **Click & Operate** : The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.

- **Freely define groups for batched control** : Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.



Diverse operation management & Data management Standard for System Controller and System Controller Lite

Schedule management

- Annual schedules can be set for each remote controller group / user defined group.
- Start / stop, operating mode, remote controller prohibition, and temperature settings can be set up to 143 times per day at 10 minute intervals for up to 101 configurations for each remote controller group.
- Settings can be made for periods straddling midnight.
- Allows programming of special settings for holidays, including public holidays, for a complete year.
- Low noise operation of outdoor unit can be scheduled.



Error display & E-mail notification

Error is notified with popup message, audible sound and E-mail real time when error occurs. Error for the past 1 year are logged and can be reviewed later.



Operating & control record

Displays the history of operation status and control.



Diverse control of indoor unit

- Indoor unit operation state, operation mode, etc. are displayed
- Indoor unit start / stop and operation mode switching
- Room temperature set point limitation



Remote controller prohibition

This prohibits changes to the operation mode, temperature, start/stop, etc.



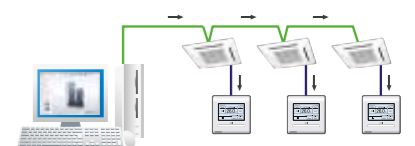
Data base import/export

Imports/exports registration data, layout data, and image data. Only the administrator can make this setting.



Automatic clock adjustment

The time setting of each controller can be set in batch automatically.

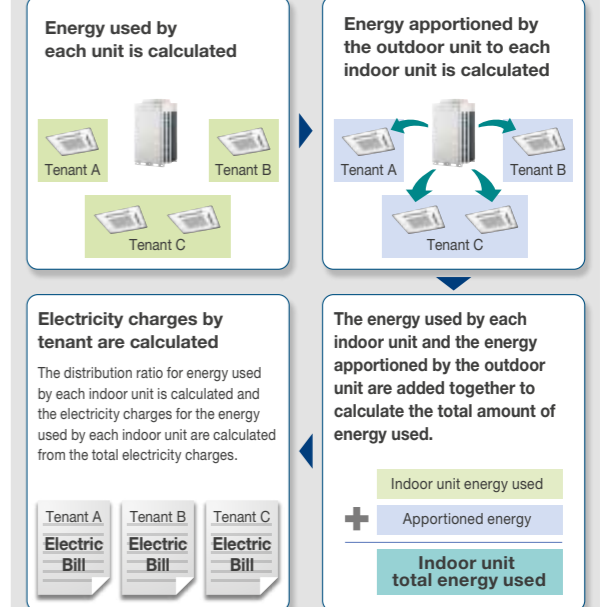
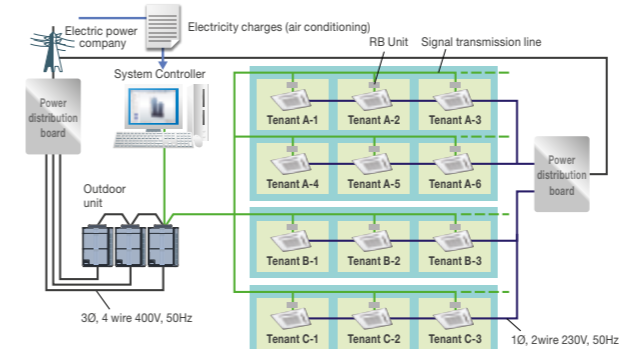


Electricity charge apportionment

Standard for System Controller
Option for System Controller Lite UTY-PLGXA1

Electricity charge apportionment calculation framework
Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)
The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.

System Configuration Example

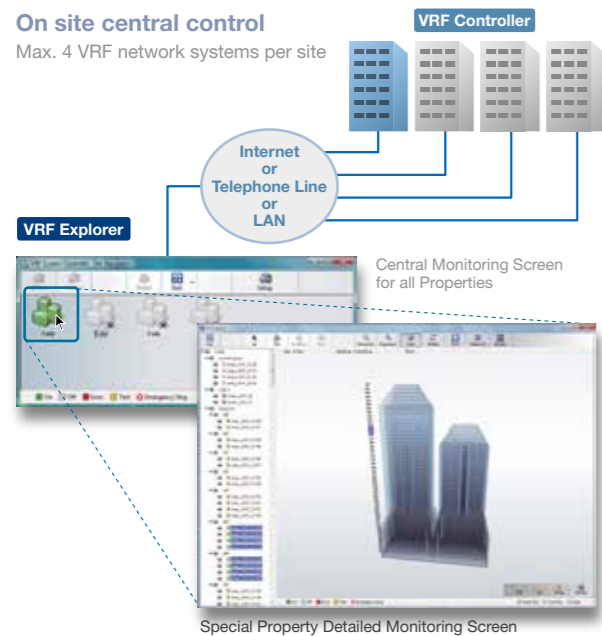


Remote management Standard for System Controller Option for System Controller Lite UTY-PLGX1

System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 softwares working together. VRF Controller runs on site and communicate with VRF system. VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller. VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network. By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

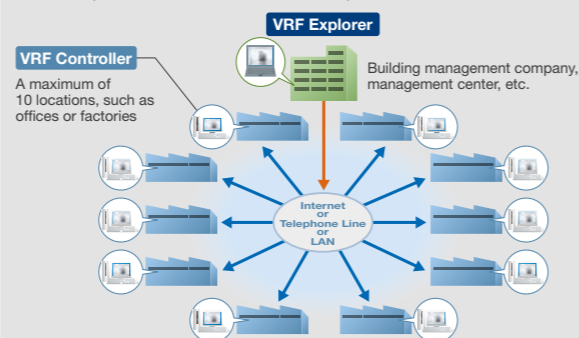
On site central control

Max. 4 VRF network systems per site

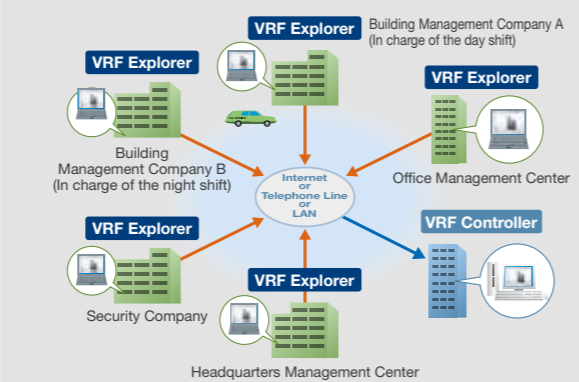


Remote central control

1 VRF Explorer can control or monitor up to 10 sites.

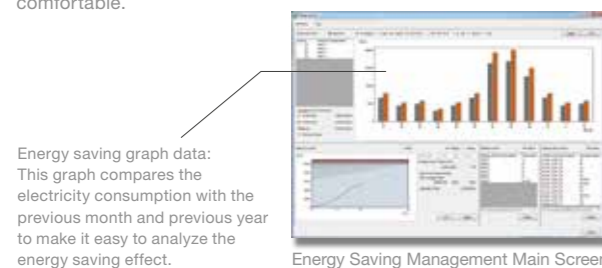


1 VRF Controller can be monitored from any number of VRF Explorers (Up to 5 connections simultaneously).



Energy saving management Option for System Controller UTY-PEGX Option for System Controller Lite UTY-PLGX1

A variety of energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed while keeping users comfortable.



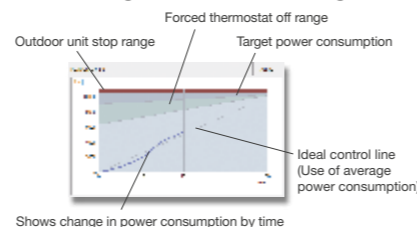
Indoor unit rotation operation

The operation of indoor units can be automatically rotated within a group in accordance with the set annual schedule to reduce power consumption while maintaining comfort. The indoor unit operation stoppage rate can be selected.



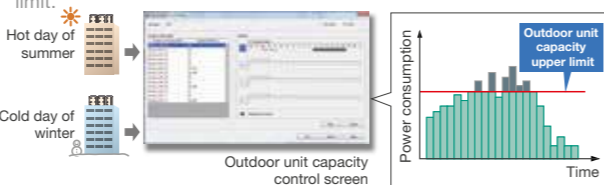
Peak cut operation

A power meter is connected to detect the total power consumption while shifting the indoor unit set temperature, set the indoor unit forced thermostat off, and taking other measures to carefully control the power consumed while maintaining comfort and conducting control to maintain the target power consumption set for each time. The indoor units to be controlled can be freely grouped and the control level can be set.



Outdoor unit capacity save

Outdoor unit capacity save switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 50% or more of the capacity upper limit.



Function	Type	System Controller		System Controller Lite		
		UTY-APGX	UTY-PEGX	UTY-ALGX	UTY-PLGX1	UTY-PLGX1
System Specification	Max. VRF networks supported	4	-	1	-	-
	Max. indoor unit / remote controller groups per VRF network	400	-	400	-	-
	Max. outdoor units per System controller	100	-	100	-	-
	Max. indoor units / remote controller groups per System controller	1600	-	400	-	-
	Max. outdoor units per System controller	400	-	100	-	-
Site Supervision	Multi site display	10	-	10	-	-
	Number of building / 1 site	20	-	-	-	-
	Number of floor per 1 site	200	-	-	-	-
	Number of floor per 1 building	50	-	-	-	-
	3D graphical layout view	-	-	-	-	-
	2D graphical layout view	-	-	-	-	-
	List display	-	-	-	-	-
	Tree display	-	-	-	-	-
	Group display	-	-	-	-	-
	Error notification	-	-	-	-	-
Error Management	Audible alarm	-	-	-	-	-
	Error email notification	-	-	-	-	-
History	Error history	-	-	-	-	-
	Operation history	-	-	-	-	-
Operation Control	Control history	-	-	-	-	-
	On/Off	-	-	-	-	-
	Operation mode	-	-	-	-	-
	Room temperature	-	-	-	-	-
	Fan speed	-	-	-	-	-
	Air flow direction	-	-	-	-	-
	Economy mode	-	-	-	-	-
	Room temperature set point limitation	-	-	-	-	-
	Test operation	-	-	-	-	-
	Antifreeze	-	-	-	-	-
	Remote control prohibition setting	-	-	-	-	-
	Temperature upper and lower limit setting	-	-	-	-	-
	Filter sign reset	-	-	-	-	-
	Memory operation	-	-	-	-	-
	Pattern operation	-	-	-	-	-
Schedule	Annual Schedule	-	-	-	-	-
	Special day setting	-	-	-	-	-
	On / off per day	72	-	72	-	-
	On / off per week	504	-	504	-	-
	Day off	-	-	-	-	-
	Min. unit of timer setting (Minutes)	10	-	10	-	-
	Low noise mode Weekly schedule	-	-	-	-	-
Remote Management	Remote monitoring	-	-	-	-	-
	Remote operation control	-	-	-	-	-
Electricity Charge Apportionment	Remote function setting	-	-	-	-	-
	Apportionment charge/bill calculation	-	-	-	-	-
	Tenant (block) setting	-	-	-	-	-
	Common facilities apportionment setting	-	-	-	-	-
	Rated power consumption allotment setting	-	-	-	-	-
	Individual calculation at cooling and heating	-	-	-	-	-
	Electricity meter supported	-	-	-	-	-
Energy Saving Management	Indoor unit rotation	-	-	-	-	-
	Peak cut control	-	-	-	-	-
	Outdoor unit capacity save	-	-	-	-	-
	Record of energy saving operation	-	-	-	-	-
	Energy saving information	-	-	-	-	-
	Power consumption monitor	-	-	-	-	-
	Electricity meter supported	-	-	-	-	-
Others	Database import/export	-	-	-	-	-
	Automatic clock adjustment	-	-	-	-	-
	Multi language	-	-	-	-	-
List Price		5714	2350	2350	850	700

○: Available. - : Not available. *:Power calculation application software is necessary, please contact the local FGL representative.

Personal Computer System Requirements

	System Controller	System Controller Lite
Operating System	<ul style="list-style-type: none"> Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit) Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	<ul style="list-style-type: none"> Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit) Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher	
Memory	2 GB or more for (Windows Vista® and Windows® 7 (32-bit)) 4 GB or more for (Windows® 7 (64-bit), Windows® 8, and Windows® 8.1)	
HDD	40 GB or more of free space	
Display	1024 x 768 or higher resolution	
Interface	<ul style="list-style-type: none"> Ethernet port (for getting access to the internet using LAN) or modem (for access to the internet using Public Telephone Line) USB ports (Maximum 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WibKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface. *Maximum number of required USB ports depends on the applicable system configuration. 	<ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) USB ports (Maximum of 5 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WibKey connection - 1 USB port is required for Echelon® U10 USB Network Interface *The maximum number of required USB ports depends on the applicable system configuration.
Accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	
Optical Drive	DVD-ROM Drive	

- Personal computer that satisfies the following system requirements
- Echelon® U10 USB Network Interface - TP/FT-10 Channel (Model number: 75010R) [Required for each VRF Network.]

Type	For System Controller		For System Controller Lite		
	System Controller	Energy Manager	System Controller Lite	Remote Access	Electricity Charge Apportionment
Model name	UTY-APGX	UTY-PEGX	UTY-ALGX	UTY-PLGX1	UTY-PLGX1
DVD-ROM	1	1	1	1	1
WibuKey*1 (Software protection key)	1	1	1	1	1

*1: Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.
System Controller or System Controller Lite may only run on a PC with Wibu Key. However, WibuKey is not required for remote VRF Explorer software.

BACnet® Gateway : UTY-ABGX Software

- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2004) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.



DVD-ROM
(Software)



Software
Protection Key



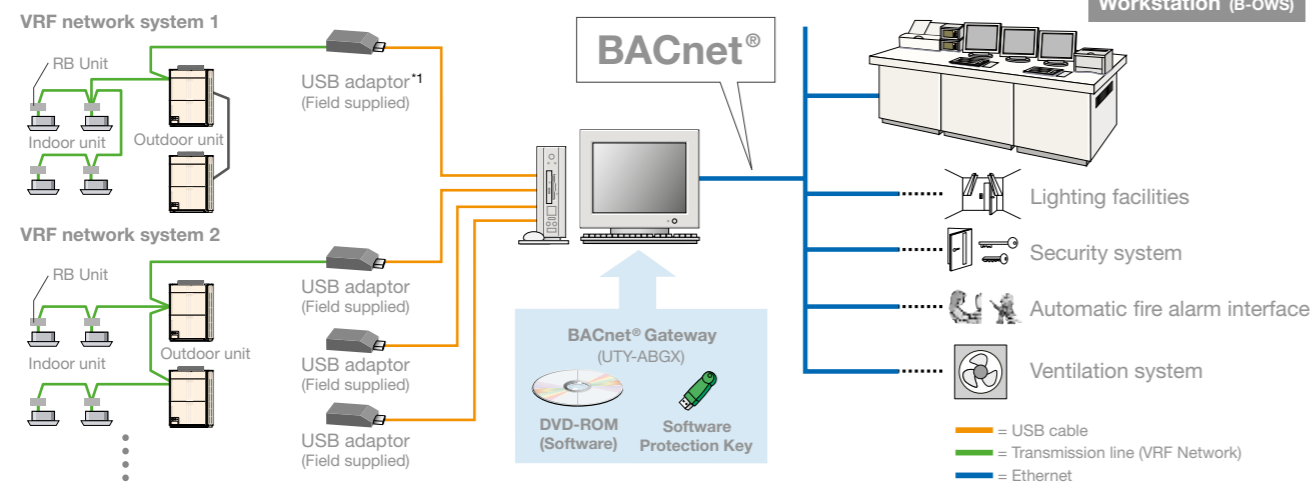
BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to requirements of ASHRAE Standard 135 is the responsibility of the BACnet International. BTL is a registered trademark of the BACnet International.

Max.
controllable
4
VRF network
systems

Max.
controllable
400
outdoor units

Max.
controllable
1,600
indoor units

Installation example



*1: USB adaptor is U10 USB Network Interface of Echelon® Corporation.

Personal Computer Specifications

	UTY-ABGX
Operating System	<ul style="list-style-type: none"> • Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit) • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2GHz or higher
Memory	<ul style="list-style-type: none"> • 2 GB or more for Windows Vista® and Windows® 7 (32-bit) • 4 GB or more for Windows® 7 (64-bit), Windows® 8, and Windows® 8.1
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> • Ethernet port (for getting access to the Internet using LAN) • USB ports (Maximum of 5 ports) - 1 USB port is required for VibKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port numbers depend on the applicable system configurations.
Software Required	Adobe® Reader® 9.0 or later
Hardware Required	DVD-ROM Drive
List Price	2993

Packing List

Name and Shape		Application
DVD-ROM	1	Includes the software and manuals for BACnet® Gateway.
Vibu Key (Software protection key)	1	Software protection key to be connected to USB port on the BACnet®-installed PC. BACnet® Gateway runs only on a PC with VibKey.

- Personal computer that satisfies the following system requirements.
- Echelon® U10 USB Network Interface - TP/FF-10 Channel (Model Number : 75010R) [Required for each VRF Network]

Network Convertor for LONWORKS® : UTY-VLGX

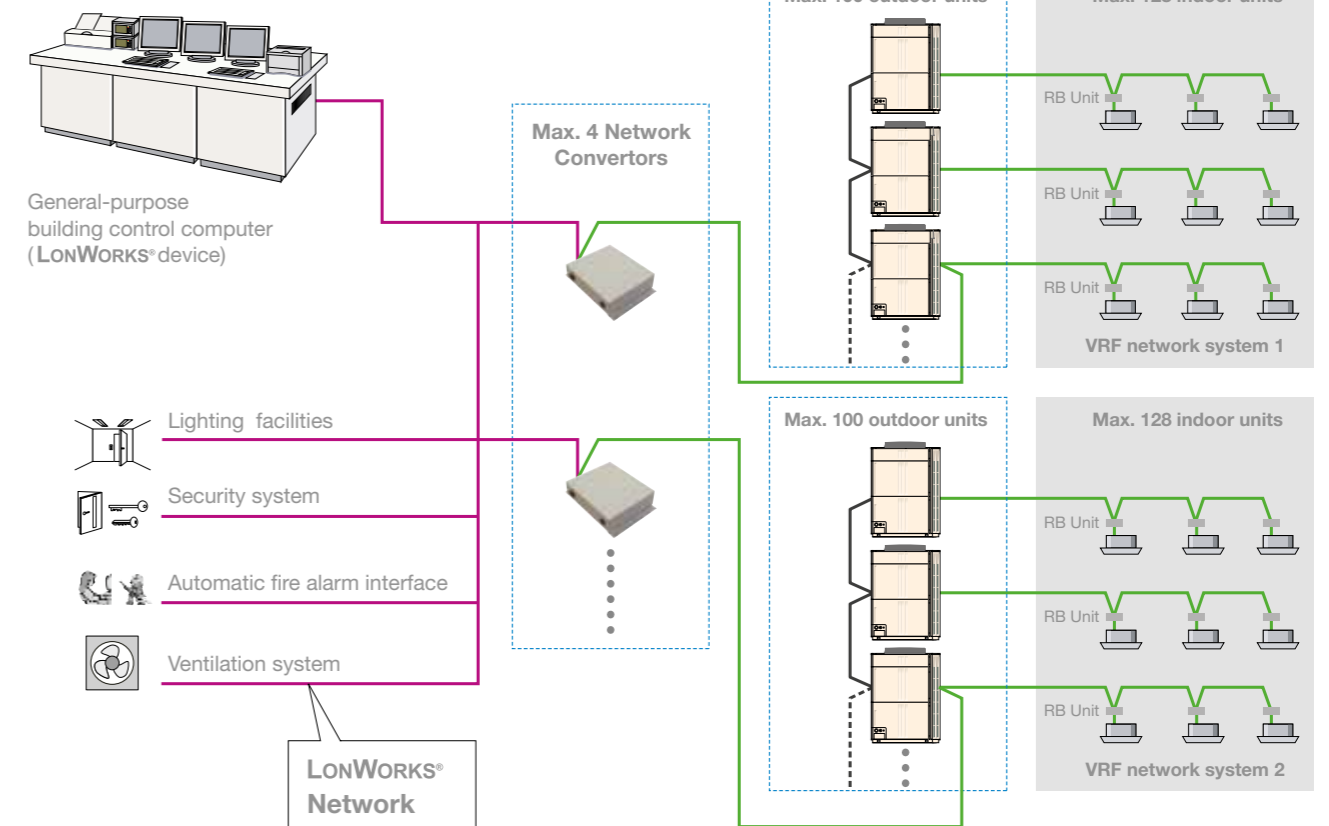
- For connection between VRF network system and a LONWORKS® open network for management of small to medium-sized BMS and VRF network system.
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® interface.
- Up to 128 Indoor units can be connected to one Network Convertor for LONWORKS®



Max.
controllable
4
units to BMS

Max.
controllable
128
indoor units

Installation example



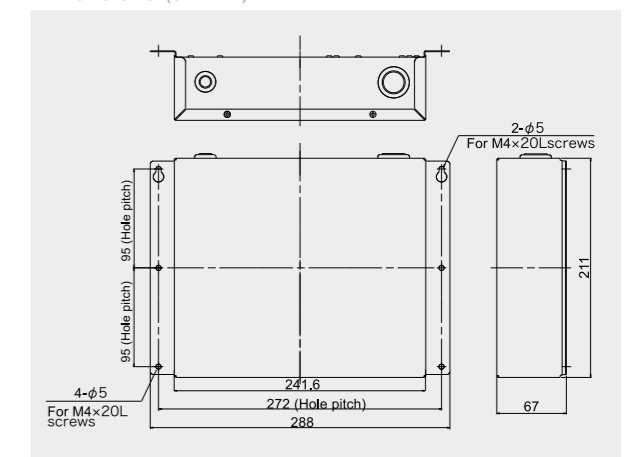
Specifications

Model Name	UTY-VLGX
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption (W)	4.5
Dimensions (HxWxD) mm	67 x 288 x 211
Weight (g)	1,500
List Price	2993

Transmission specifications (BMS side)

Transmission speed	78 kbps
Transceiver	FTX1 (Echelon® Corporation)
Transmission way form	Free topology
Terminal resistor	None (It attaches at the terminal of a network.)

Dimensions (Unit : mm)



KNX® Interface : FJ-RC-KNX-1i

The KNX Interface allows a complete integration of air conditioners with KNX Network systems.

- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor units and group controlled (up to 16) indoor units.



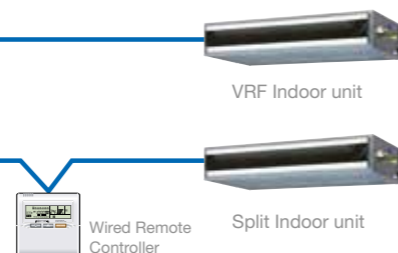
KNX Network



KNX Interface

The KNX Interface can be used with or without Wired Remote Controller.

or



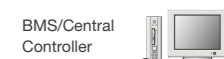
MODBUS® Interface : FJ-RC-MBS-1

The MODBUS Interface allows a complete integration of air conditioners into MODBUS Networks.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Interface permits central monitoring and control of air conditioners from BMS.

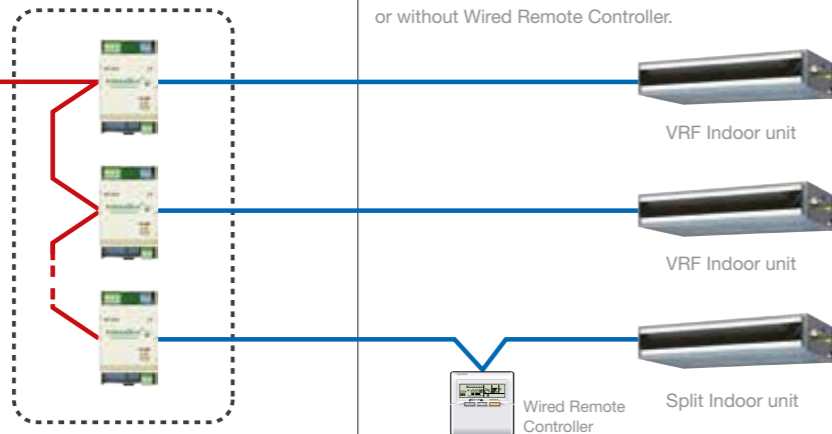


MODBUS Network



Max. 63 MODBUS Interface

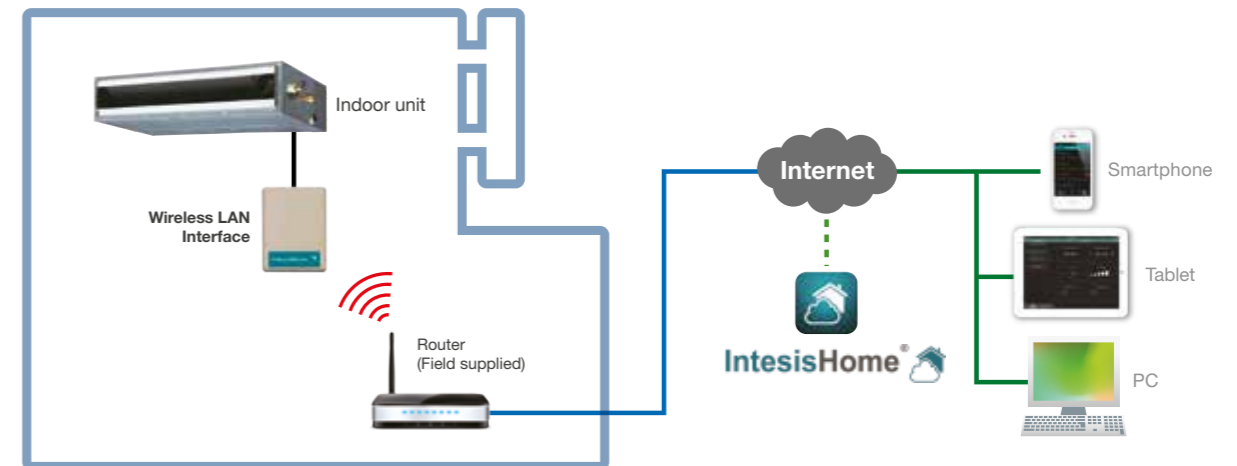
The MODBUS Interface can be used with or without Wired Remote Controller.



NEW Wireless LAN Interface : FJ-RC-WIFI-1



- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, Tablets and PC
- No separate external power supply required
- Can be used for single indoor units and group controlled (up to 16) indoor units



Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature display
- Set temperature control
- Multi Language
- One Scene and Timer

Advanced control (Optional functions)

- Climate working modes (ECO, Comfort, Powerful) (future release)
- Schedulable functionalities (ON/OFF, Modes, Set point temperature, Fan Speed, Louver position)
- Set temperature limitation (future release)
- Multiple Scenes & Timers and Calendar function

Notifications and history

- Alerts e-mail notification (future release)
- Air conditioning malfunction alerts
- Connectivity monitoring and alerts
- History (future release)

Specifications

Model Name	FJ-RC-MBS-1
Dimensions (HxVxD) mm	93x53x58
Weight (g)	85
List Price	225

Model Name	FJ-RC-KNX-1i
Dimensions (HxVxD) mm	70x70x28
Weight (g)	70
List Price	255

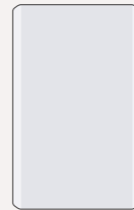
Specifications

Model Name	FJ-RC-WIFI-1
Dimensions (HxVxD) mm	70x108x28
Weight (g)	80
List Price	225

External Switch Controller : UTY-TEKX

Air conditioner switching can be controlled by connecting other sensor switches

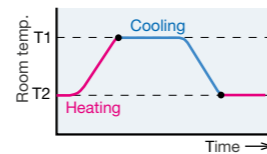
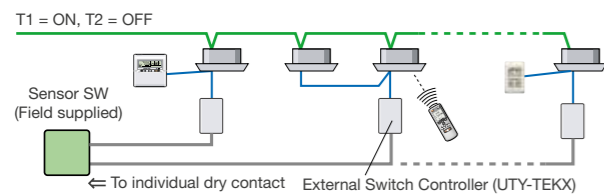
- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a field supplied parts.



Installation example

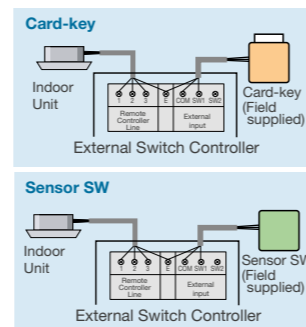
Auto mode operation, which switches the cooling and the heating automatically, is enabled by using the sensor switch and External Switch Controller.

Note: All indoor units will operate in the same mode.



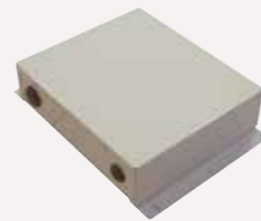
- Note 1.
Please choose a thermosensor switch which can be set up for T1 and T2.
- Note 2.
The remote controller's operation is prior to the auto mode operation.

Electrical wiring

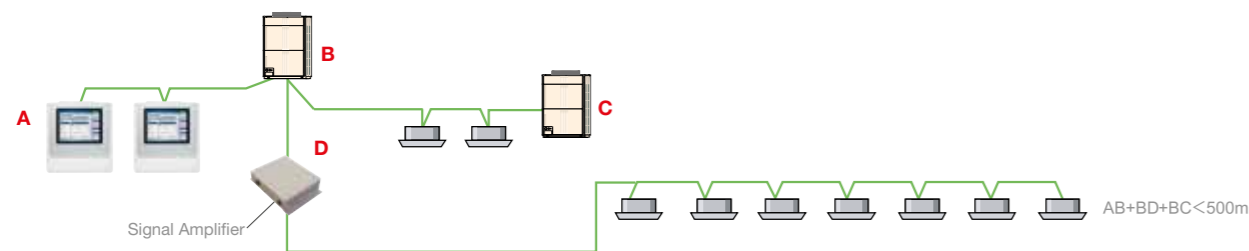


Signal Amplifier : UTY-VSGXZ1

- Transmission Line length can be extended up to 3,600m with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,
 - (1) When the total wiring length of the transmission line exceeds 500m.
 - (2) When the total number of units on the transmission line exceeds 64.



Installation example



Specifications

Model Name	UTY-TEKX
Power Supply	DC 12V
Dimensions (HxVxD) mm	93x53x58
Weight (g)	100
C12V is supplied by the indoor unit.	
List Price	87

Model Name	UTY-VSGXZ1
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption	4.5
Dimensions (HxVxD) mm	67 x 288 x 211
Weight (g)	1,500
List Price	701

Network Convertor : UTY-VGGXZ1

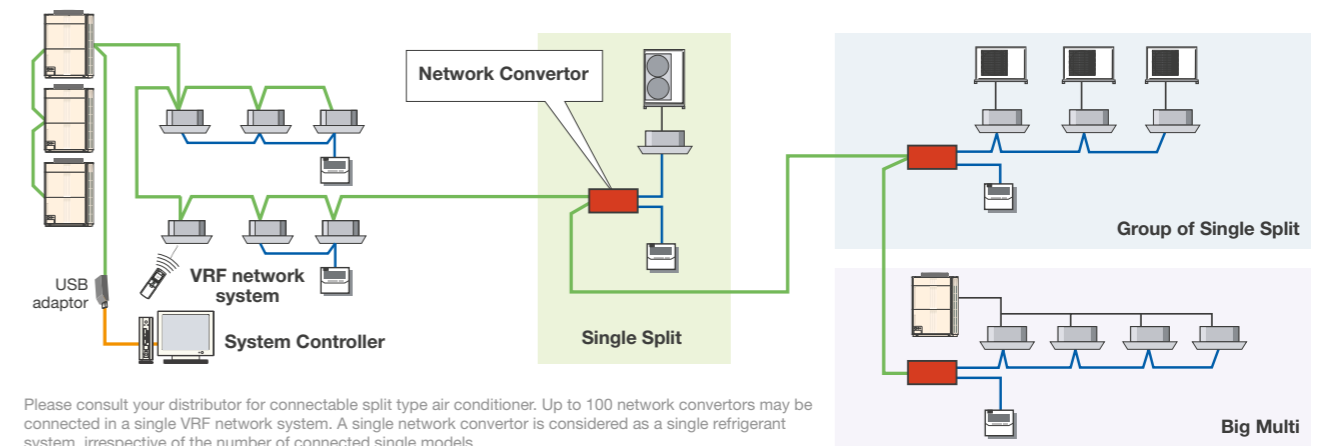
- This network convertor is to be used for connecting single split system or group remote controller with the VRF network system.
- Please select the function by switching the dip switch during the installation.



Max.
controllable
16
Network
Convertor units

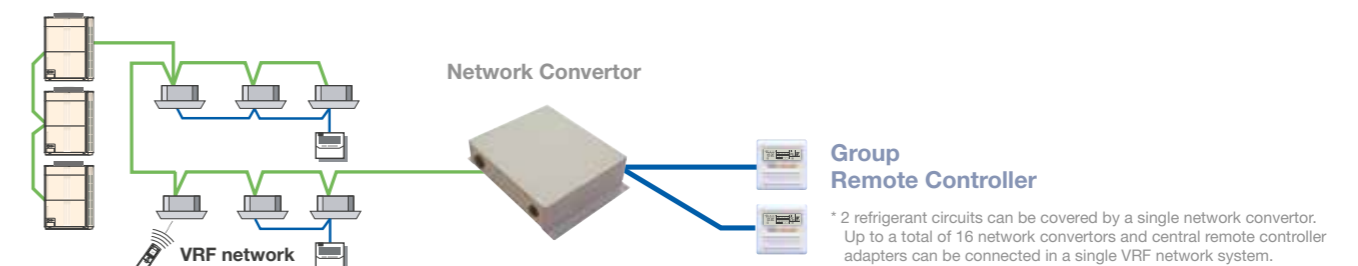
Installation example

- Split type systems can be controlled from a central remote controller or PC controller through connection to the VRF's network convertor.
- Standard remote controller and central remote controller provide On / Off control, master control, temperature and fan control, etc.
- A single network convertor can be used to connect and control up to 16 single units.



Used for connecting Group Remote Controller

4 group remot controllers can be connected to a single Network convertor.



Specifications

Model Name	UTY-VGGXZ1
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption	6.5
Dimensions (HxVxD) mm	67 x 288 x 211
Weight (g)	1,500
List Price	438

Service Tool : UTY-ASGX

Software

Extensive monitoring and analysis functions for installation and maintenance

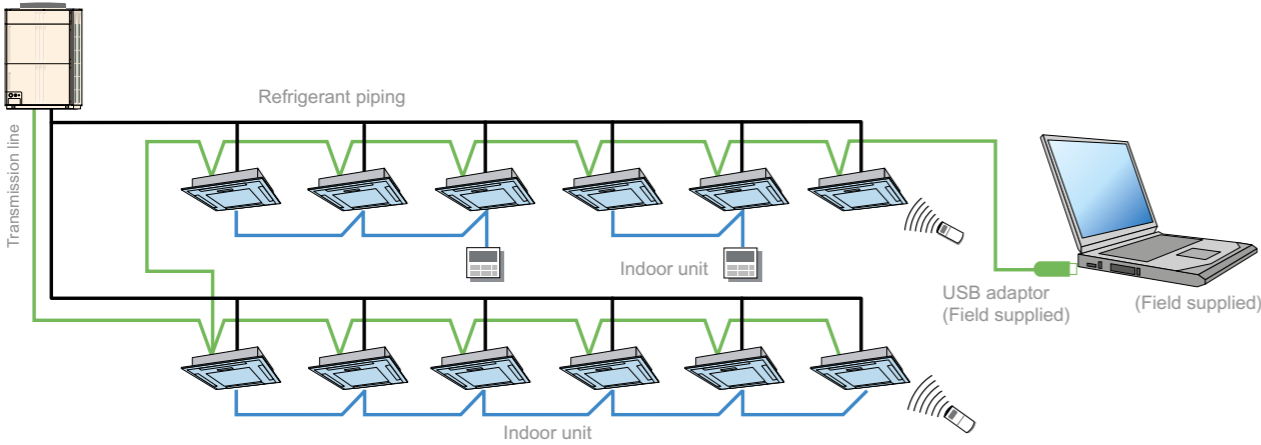
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (field supplied).



Max. Monitor and control
400
indoor units

Max. Monitor and control
100
outdoor units

Wiring connection



Functions

•Equipment Detail (Diagram)



- Equipment Detail (List)
- Error History
- Remote File Download
- System List
- Commissioning Tool

Personal computer specifications

	UTY-ASGX
Operating System	<ul style="list-style-type: none">• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1• Microsoft® Windows® 8 Pro (32-bit or 64-bit)
CPU	1GHz or higher
Memory	<ul style="list-style-type: none">• For Windows Vista®, Windows® 7 (32-bit), and Windows® 8 (32-bit): 1 GB or more• For Windows® 7 (64-bit) and Windows® 8.1 (64-bit): 2 GB or more
HDD	10GB or more of free space
Display	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none">• 2 USB ports- 1 USB port is required for WibuKey connection- 1 USB port is required for Echelon® U10 USB Network Interface
Software Required	Internet Explorer® 8.0 or 9.0 or 10.0 / Adobe® Reader® 9.0 or later
Hardware Required	DVD-ROM Drive

List Price 700

Packing List

Name and Shape	Quantity	Application
DVD-ROM	1	Includes the software and manuals
Wibu Key (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey.

- Personal computer that satisfies the following system requirements
- Echelon® U10 USB Network Interface - TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

Web Monitoring Tool : UTY-AMGX

Software

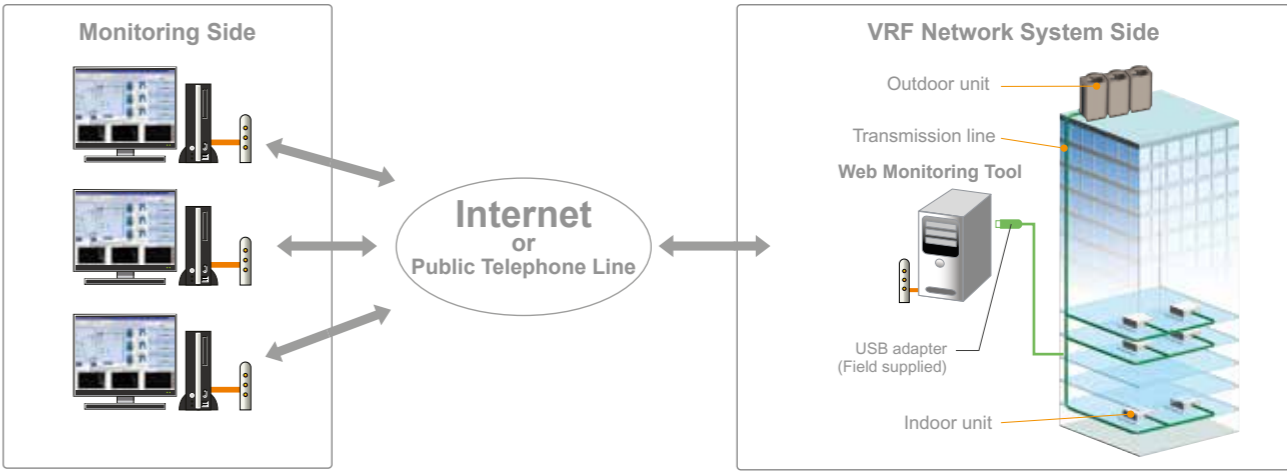
Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
 - Error notification can be automatically transmitted to several locations using the internet*1.
 - Requires either a dedicated internet connection or public telephone line.
 - Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
 - The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
 - Monitoring side computer is not required to install special software, requires only general web browser.
- *1: Use of internet mail system required.

VRF network system can be supported
4

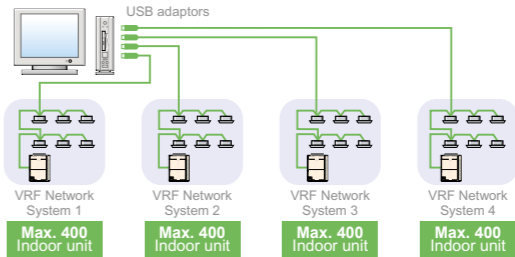
1,600
indoor units can be supported

Web Monitoring System



Support 4 VRF network systems

USB adaptor (max. 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units. Suitable for large-scale buildings or hotels.



Personal computer specifications

	UTY-AMGX
Operating System	<ul style="list-style-type: none">• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1• Microsoft® Windows® 8 Pro (32-bit or 64-bit)
CPU	1GHz or higher
Memory	<ul style="list-style-type: none">• For Windows Vista®, Windows® 7 (32-bit), and Windows® 8 (32-bit): 1 GB or more• For Windows® 7 (64-bit) and Windows® 8 (64-bit): 2 GB or more
HDD	40GB or more of free space
Display	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none">• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line)• USB ports (Maximum of 5 ports)- 1 USB port is required for WibuKey connection- Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface* Required maximum USB port numbers depend on the applicable system configurations.
Software Required	Internet Explorer® 8.0 or 9.0 or 10.0 / Adobe® Reader® 9.0 or later
Hardware Required	DVD-ROM Drive

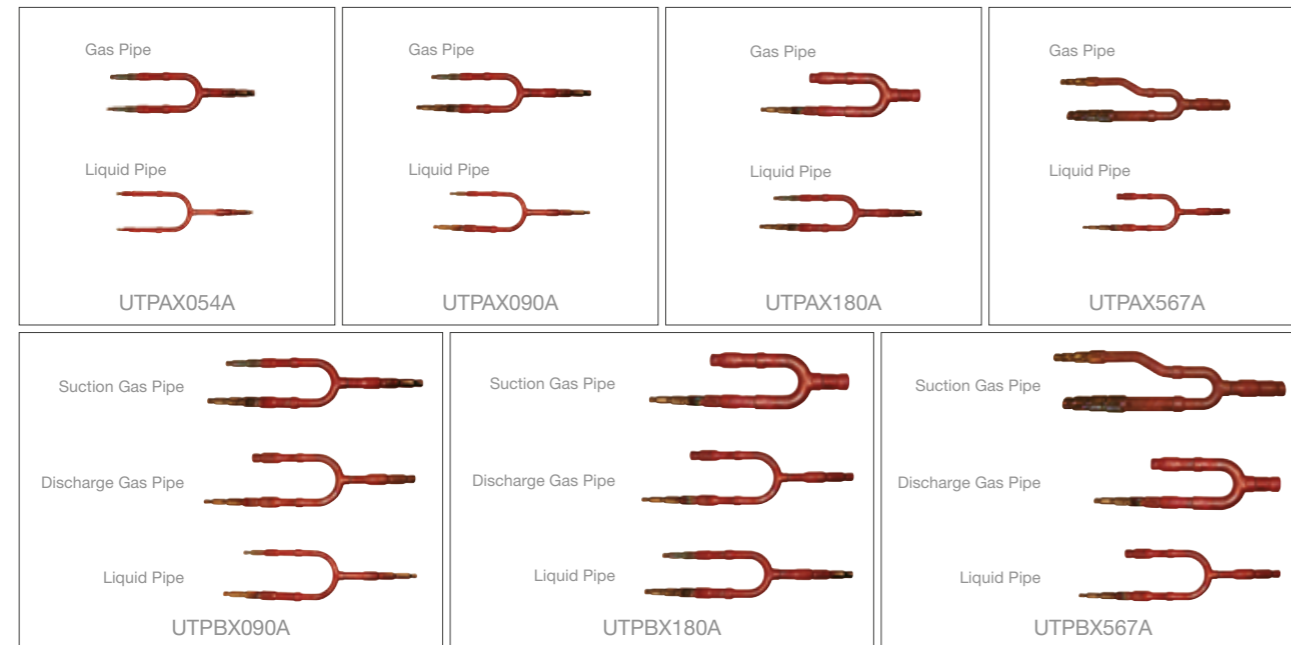
List Price 2968

Packing List

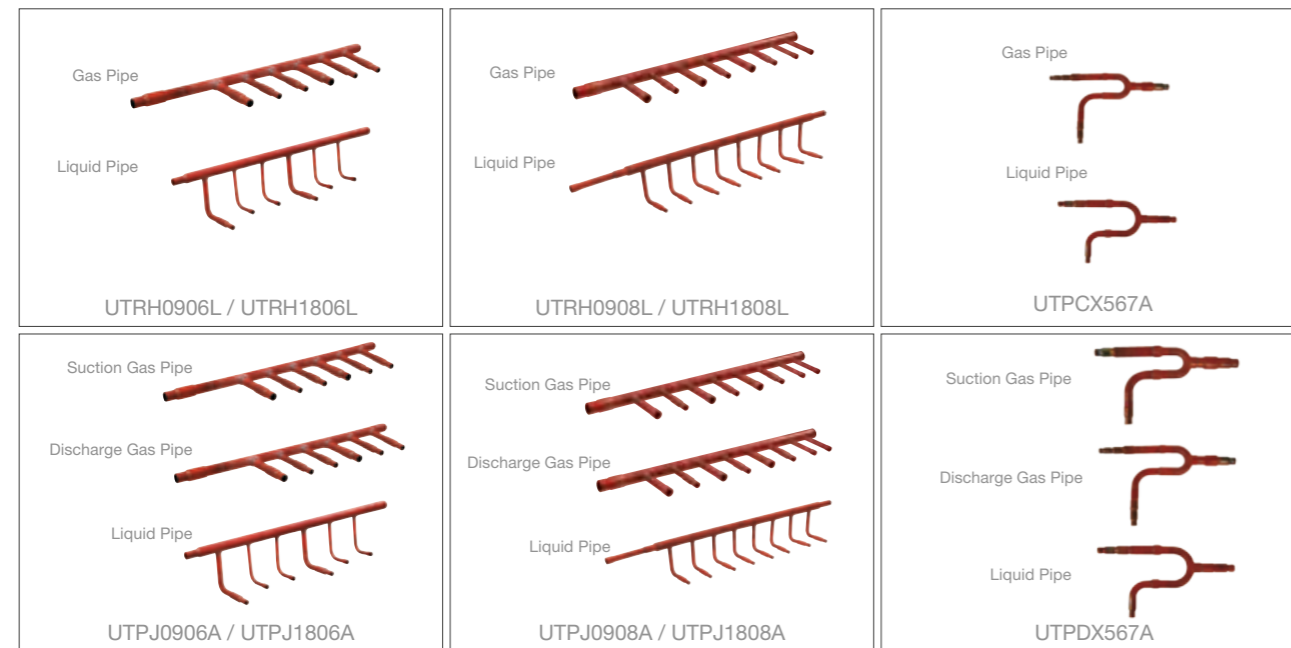
Name and Shape	Quantity	Application
DVD-ROM	1	Includes the software and manuals
Wibu Key (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey.

- Personal computer that satisfies the following system requirements
- Echelon® U10 USB Network Interface - TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

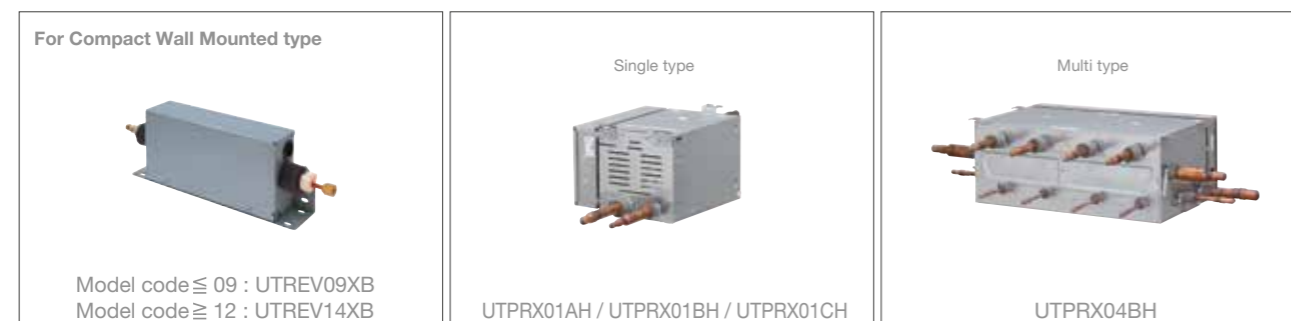
Connection Units Separation Tube



Header



EV Kit



Specifications Separation Tube

Model name	UTPAX054A (for J-IIS only)	UTPAX090A	UTPAX180A	UTPAX567A
Total cooling capacity of indoor unit (kW)	19.6 or less	28.0 or less	28.1 to 56.0	56.1 or more
List Price	51	59	87	151

Model name	UTPBX090A	UTPBX180A	UTPBX567A
Total cooling capacity of indoor unit (kW)	28.0 or less	28.1 to 56.0	56.1 or more
List Price	64	92	156

Header

Model Name	3-6 Branches	UTRH0906L	UTRH1806L
	3-8 Branches	UTRH0908L	UTRH1808L
Total cooling capacity of indoor unit (kW)		28.0 or less	28.1 to 56.0
List Price		157 / 161	159 / 164

Model Name	3-6 Branches	UTPJ0906A	UTPJ1806A
	3-8 Branches	UTPJ0908A	UTPJ1808A
Total cooling capacity of indoor unit (kW)		28.0 or less	28.1 to 56.0
List Price		210 / 220	215 / 225

Outdoor unit Branch kit

Model name	UTPCX567A (for V-II)	UTPDX567A (for VR-II)
Number of Outdoor unit	2 outdoor units	1
	3 outdoor units	2
List Price	151	156

EV Kit

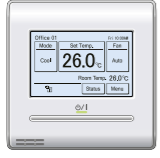







Model name	UTREV09XB	UTREV14XB
Application Model	ASYE04GACH ASYE07GACH ASYE09GACH	ASYE12GACH ASYE14GACH
List Price	76	76

RB Unit






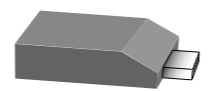
Type	Single type			Multi type
Model name	UTPRX01AH	UTPRX01BH	UTPRX01CH	UTPRX04BH
Power source	Single phase 230V, 50Hz			
Input power	W	17	24	31
Number of branches	1	1	1	4
Maximum capacity of connectable indoor units(Q)	kW	$Q \leq 8.0$	$Q \leq 18.0$	$Q \leq 28.0$
Maximum capacity of connectable indoor units per branch(Q)	kW	$Q \leq 8.0$	$Q \leq 18.0$	$Q \leq 28.0$
Maximum number of connectable indoor units per branch	3	8	8	8
Dimensions (HxWxD)	mm	198x298x268		260x658x428
List Price	324	358	411	1293

* 1: In case of two RB units connected in series (total 8-branches), maximum capacity of connectable indoor units is up to 56.0kW.

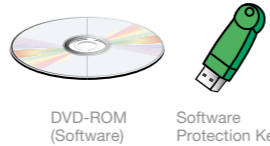
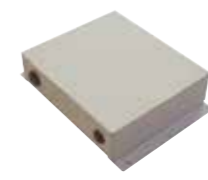



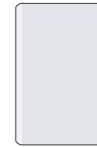
Controllers For Individual Control

Wired Remote Controller (Touch Panel) UTYRNR 	Wired Remote Controller UTYRNKY 	Wired Remote Controller NEW UTYRLRY 
Simple Remote Controller UTYRSKY With operation mode 	Simple Remote Controller UTYRHKY Without operation mode 	Wireless Remote Controller UTYLNHY 
IR Receiver Unit UTBYWC For All Duct type 	IR Receiver Unit UTYLRHYB1 For Cassette type 	

For Centralised Control

Group Remote Controller UTYCGGY 	Central Remote Controller UTYDCGY 	Touch Panel Controller UTYDTGY 
System Controller Lite Software NEW UTYALGX 	System Controller Software UTYAPGX 	USB Adaptor (Field supplied) USB75010R For system controllers 

Convertors / Adaptors For External device

BACnet® Gateway Software UTYABGX 	Network Converter for LonWORKS® UTY-VLGX 	KNX® Interface FJ-RC-KNX-1i 
MODBUS® Interface FJ-RC-MBS-1 	Wireless LAN Interface NEW FJ-RC-WIFI-1 	External Switch Controller UTYTEKX 

For System Expansion

Network Converter UTYVGGXZ1 	Signal Amplifier UTYVSGXZ1 
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Panels For Cassette type







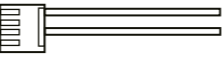




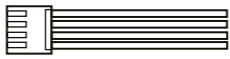

Cassette Grille UTGUFYC-W For Compact Cassette type 	Cassette Grille UTGUGYA-W For Cassette type 
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Service

Service Tool Software UTYASGX 	USB Adaptor (Field supplied) USB75010R For system controllers 
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Others

Communication system: External Connect Kit

For Indoor unit UTYXWZXZ7  UTYXWZXZD  UTYXWZXZB  UTYXWZXZE  UTYXWZXZC 		For Outdoor unit UTYXWZXZ6  UTYXWZXZ9 	
For RB unit UTYXWZXZ6  UTYXWZXZB 	For Central Remote Controller UTYXWZXZ7  UTYXWZXZ8  UTYXWZXZA 	For Touch Panel Controller UTYXWZXZA 	








Function List

		Indoor unit	Outdoor unit	Controller		Other
				Central Remote Controller	Touch Panel Controller	RB Unit
Input	Operation / Stop	● UTYXWZXZD ○ UTYXWZXZB	-	-	-	-
	All On / All Off	-	-	● UTYXWZXZ7 ○ UTYXWZXZ8	-	-
	Batch Stop	-	● UTYXWZXZ6	-	-	-
	Forced Stop	● UTYXWZXZD ○ UTYXWZXZB	-	-	-	-
	Emergency Stop	● UTYXWZXZD ○ UTYXWZXZB	● UTYXWZXZ6	● UTYXWZXZ7 ○ UTYXWZXZ8	-	-
	Forced Thermostat off	● UTYXWZXZE ○ UTYXWZXZ7	-	-	-	-
	Low Noise Mode Operation	-	● UTYXWZXZ6	-	-	-
	Cooling / Heating Priority	-	● UTYXWZXZ6 * 1	-	-	● UTYXWZXZ6 ○ UTYXWZXZB
	"Outdoor Unit Operation Peak Control"	-	● UTYXWZXZ6	-	-	-
	"Power Usage Information from Electricity Meter"	-	● UTYXWZXZ6	-	-	-
Output	Operation Status	● UTYXWZXZC	○ UTYXWZXZ6	○ UTYXWZXZA	○ UTYXWZXZA	-
	Error Status	● UTYXWZXZC	○ UTYXWZXZ6	○ UTYXWZXZA	○ UTYXWZXZA	-
	Indoor Unit Fun Operation Status	● UTYXWZXZC	-	-	-	-
	Auxiliary Heater Output	● UTYXWZXZC * 2	-	-	-	-
	Base Heater	-	● UTYXWZXZ9	-	-	-

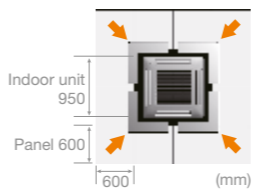
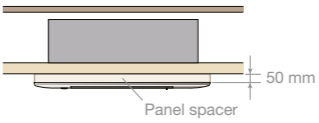




* 1. Heat Pump type only * 2. Duct type only

●: Dry Contact ○: Apply Voltage


For Duct type

Flange (Round) UTDRF204 For Medium Static Pressure Duct type / Ceiling type 	Flange (Square) UTDSF045T For Medium Static Pressure Duct type 	Remote Sensor Unit UTYXSZX For All Duct type New amenity space can be offered by installing the Remote sensor. 
Long-Life Filter UTDLF25NA For Medium Static Pressure Duct type 	Long-Life Filter UTDLF60KA For High Static Pressure Duct type 	Auto Louver Grille Kit UTDGXSA-W (for ARXD04/07/09/12/14GALH) UTDGXSB-W (for ARXD18GALH) UTDGXSC-W (for ARXD24GALH) For Slim Duct type 
		Drain Pump Unit UTZPX1BBA For Low Static Pressure Duct type UTZPX1NBA For Medium Static Pressure Duct type 

For Cassette type

Wide Panel UTGAGYA-W For Cassette type 	Panel Spacer UTGBGYA-W For Cassette type 	Fresh Air Intake Kit UTZVXAA For Compact Cassette type 
		UTZVXGA For Cassette type 
Air Outlet Shutter Plate UTRYDZB For Compact Cassette type Shuts the air outlet when only using as 3 blow out. 	Air Outlet Shutter Plate UTRYDZC For Cassette type Shuts the air outlet when only using as 3 blow out. 	

For Ceiling type

Drain Pump Unit UTRDPB24T For Ceiling type 
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Description	Part Number	Nominal Cooling Capacity kW	2014 List Price £	Comments
OUTDOOR UNITS - J-IIS (MINI-VRF)				
Outdoor Unit	AJYA040ICIAH	12.1	£2,200	Available Summer 2014
Outdoor Unit	AJYA045ICIAH	14.0	£2,400	Available Summer 2014
Outdoor Unit	AJYA054ICIAH	15.1	£2,600	Available Summer 2014
OUTDOOR UNITS - J-II (MINI-VRF)				
Outdoor Unit	AJYA40IALH	12.1	£3,266	
Outdoor Unit	AJYA45IALH	14.0	£3,581	
Outdoor Unit	AJYA54IALH	15.5	£3,896	
OUTDOOR UNITS - V-II (2-PIPE)				
Outdoor Unit	AJYA72IALH	22.4	£5,427	
Outdoor Unit	AJYA90IALH	28.0	£6,010	
Outdoor Unit	AJY108IALH	33.5	£7,258	
Outdoor Unit	AJY126IALH	40.0	£8,505	
Outdoor Unit	AJY144IALH	45.0	£10,273	
OUTDOOR UNITS - VR-II (3-PIPE)				
Outdoor Unit	AJYA72GALH	22.4	£5,672	
Outdoor Unit	AJYA90GALH	28.0	£6,203	
Outdoor Unit	AJY108GALH	33.5	£7,585	
Outdoor Unit	AJY126GALH	40.0	£8,864	
Outdoor Unit	AJY144GALH	45.0	£10,229	
COMPACT CASSETTE				
Compact Cassette	AUXB04GALH	1.1	£706	Price excludes grille, to be ordered separately
Compact Cassette	AUXB07GALH	2.2	£706	Price excludes grille, to be ordered separately
Compact Cassette	AUXB09GALH	2.8	£721	Price excludes grille, to be ordered separately
Compact Cassette	AUXB12GALH	3.6	£743	Price excludes grille, to be ordered separately
Compact Cassette	AUXB14GALH	4.5	£793	Price excludes grille, to be ordered separately
Compact Cassette	AUXB18GALH	5.6	£829	Price excludes grille, to be ordered separately
Compact Cassette	AUXB24GALH	7.1	£919	Price excludes grille, to be ordered separately
Grille for Compact Cassette	UTGUFYCV	-	£151	
CASSETTE				
Standard Cassette	AUXD18GALH	5.6	£771	Price excludes grille, to be ordered separately
Standard Cassette	AUXD24GALH	7.1	£839	Price excludes grille, to be ordered separately
Standard Cassette	AUXA30GALH	9.0	£900	Price excludes grille, to be ordered separately
Standard Cassette	AUXA36GALH	11.2	£1,050	Price excludes grille, to be ordered separately
Standard Cassette	AUXA45GALH	12.5	£1,125	Price excludes grille, to be ordered separately
Standard Cassette	AUXA54GALH	14.0	£1,195	Price excludes grille, to be ordered separately
Grille for Standard Cassette	UTGUGYAV	-	£257	
COMPACT LOW STATIC DUCT (Horizontal / Vertical)				
Compact Duct 0-50pa	ARXB07GALH	2.2	£604	
Compact Duct 0-50pa	ARXB09GALH	2.8	£620	
Compact Duct 0-50pa	ARXB12GALH	3.6	£704	
Compact Duct 0-50pa	ARXB14GALH	4.5	£743	
Compact Duct 0-50pa	ARXB18GALH	5.6	£788	
SLIM DUCT (Horizontal / Vertical)				
Slim Duct with integrated Drain Pump 0-90pa	ARXD04GALH	1.1	£635	198mm high. Condensate pump for Horizontal use only.
Slim Duct with integrated Drain Pump 0-90pa	ARXD07GALH	2.2	£635	198mm high. Condensate pump for Horizontal use only.
Slim Duct with integrated Drain Pump 0-90pa	ARXD09GALH	2.8	£651	198mm high. Condensate pump for Horizontal use only.
Slim Duct with integrated Drain Pump 0-90pa	ARXD12GALH	3.6	£740	198mm high. Condensate pump for Horizontal use only.
Slim Duct with integrated Drain Pump 0-90pa	ARXD14GALH	4.5	£780	198mm high. Condensate pump for Horizontal use only.
Slim Duct with integrated Drain Pump 0-90pa	ARXD18GALH	5.6	£828	198mm high. Condensate pump for Horizontal use only.
Slim Duct with integrated Drain Pump 0-90pa	ARXD24GALH	7.1	£866	198mm high. Condensate pump for Horizontal use only.
MEDIUM STATIC DUCT				
Med Static Duct 0-150pa	ARXB24GALH	7.1	£825	
Med Static Duct 0-150pa	ARXB30GALH	9.0	£942	
Med Static Duct 0-150pa	ARXB36GALH	11.2	£1,061	
Med Static Duct 0-150pa	ARXB45GALH	12.5	£1,179	
HIGH STATIC DUCT				
High Static Duct 100-200pa	ARXC36GATH	11.2	£1,273	
High Static Duct 100-250pa	ARXC45GATH	12.5	£1,414	
High Static Duct 100-250pa	ARXC60GATH	18.0	£1,556	
High Static Duct 100-300pa	ARXC72GATH	22.4	£1,711	
High Static Duct 100-300pa	ARXC90GATH	25.0	£1,882	
FLOOR / CEILING				
Floor / Ceiling	ABYA12GATH	3.6	£829	
Floor / Ceiling	ABYA14GATH	4.5	£869	
Floor / Ceiling	ABYA18GATH	5.6	£922	
Floor / Ceiling	ABYA24GATH	7.1	£962	

Description	Part Number	Nominal Cooling Capacity kW	2014 List Price £	Comments
CEILING				
Ceiling	ABYA30GATH	9.0	£1,075	
Ceiling	ABYA36GATH	11.2	£1,187	
Ceiling	ABYA45GATH	12.5	£1,798	
Ceiling	ABYA54GATH	14.0	£2,406	
COMPACT WALL				
Compact Wall	ASYA04GACH	1.1	£467	EV Internal
Compact Wall	ASYA07GACH	2.2	£515	EV Internal
Compact Wall	ASYA09GACH	2.8	£525	EV Internal
Compact Wall	ASYA12GACH	3.6	£539	EV Internal
Compact Wall	ASYA14GACH	4.5	£559	EV Internal
Compact Wall - EV External	ASYE04GACH	1.1	£467	Price excludes EV Kit, to be ordered separately (UTREV09XB)
Compact Wall - EV External	ASYE07GACH	2.2	£467	Price excludes EV Kit, to be ordered separately (UTREV09XB)
Compact Wall - EV External	ASYE09GACH	2.8	£477	Price excludes EV Kit, to be ordered separately (UTREV09XB)
Compact Wall - EV External	ASYE12GACH	3.6	£492	Price excludes EV Kit, to be ordered separately (UTREV14XB)
Compact Wall - EV External	ASYE14GACH	4.4	£513	Price excludes EV Kit, to be ordered separately (UTREV14XB)
EV Kit Model - Code "07/09"(for V2 Series)	UTREV09XB	-	£76	
EV Kit Model - Code "12/14"(for V2 Series)	UTREV14XB	-	£76	
WALL				
Wall Mount	ASYA18GACH	5.6	£581	
Wall Mount	ASYA24GACH	7.1	£638	
Wall Mount	ASYA30GACH	8.0	£697	

ERV Units

Description	Part Number	Nominal Cooling Capacity kW	2014 List Price £	Comments
OUTDOOR AIR UNITS				
Outdoor Air Unit 50-185pa	ARXH054GTAH	14.0	POA	Available Summer 2014
Outdoor Air Unit 50-200pa	ARXH072GTAH	22.4	POA	Available Summer 2014
Outdoor Air Unit 50-240pa	ARXH096GTAH	28.0	POA	Available Summer 2014

Description	Part Number	Nominal Cooling Capacity kW	2014 List Price £	Comments
ACCESSORIES				
Wireless Remote Controller	UTYIINH-Y	-	£45	
Wired Remote Controller	UTYRNKY	-	£100	
Wired Remote Controller (Touch Panel)	UTYRNRY	-	£200	
Wired Remote Controller	UTYRLRY	-	£100	Available Summer 2014
Simple Remote Controller (with Master Control)	UTYRSKY	-	£80	
Simple Remote Controller (without Master Control)	UTYRHKY	-	£75	
Group Remote Controller	UTYCGGY	-	£140	Requires Network Converter UTYVGGXZ1
Central Remote Controller	UTYDCGY	-	£1,685	
Touch Panel Controller	UTYDTGY	-	£3,180	
System Controller	UTYAPGX	-	£5,714	Software only
Energy Saving Management Software	UTYPEGX	-	£2,350	Option for System Controller - WIBU key only
System Controller Lite	UTYALGX	-	£2,350	Software only
Electricity Charge Module	UTYPIGXA1	-	£700	Option for System Controller Lite - WIBU key only
Remote Access Module	UTYPIGXR1	-	£850	Option for System Controller Lite - WIBU key only
Energy Saving Module	UTYPIGXE1	-	£850	Option for System Controller Lite - WIBU key only
USB Adaptor	USB75010R		£450	Echelon USB adaptor for System Controller / Lite & Service Tool
Service Tool (Software)	UTYASGX	-	£700	
Web Monitoring Tool	UTYAMGX	-	£2,968	Requires site PC interfaced to VRF system[s]
Signal Amplifier	UTYVSGXZ1	-	£701	
Network Converter	UTYVGGXZ1	-	£438	
Network Converter for 'LONWORKS'	UTYVLGX	-	£2,993	
BACnet Gateway	UTYABGX	-	£2,993	Software only
KNX Interface	FJRCKNX11		£255	0 per ID unit or group of ID units (max 16)
Modbus Interface	FJRCMBS1		£225	1 per ID unit or group of ID units (max 16)
Wireless LAN Interface	FJRCSVFI1		£225	1 per ID unit or group of ID units (max 16)
External Switch Controller	UTYTEKX	-	£87	
IR Receiver Kit for Cassette	UTYLRHYB1	-	£73	
IR Receiver Unit for Duct	UTBYVWC	-	£73	
RB Unit - A	UTPRXO1AH	-	£324	Max 3 IUs, Q ≤ 8.0kW
RB Unit - B	UTPRXO1BH	-	£358	Max 8 IUs, Q ≤ 18.0kW
RB Unit - C	UTPRXO1CH	-	£411	Max 8 IUs, Q ≤ 28.0kW
RB Unit - 4 Branch	UTPRXO4BH	-	£1,293	Max 8 IUs, Q ≤ 18.0kW per branch, Q ≤ 56.0kW total
IU Separation Tube - IU Capacity 56.1kW or more (3P)	UTPBX567A	-	£156	
IU Separation Tube - IU Capacity 28.1 to 56.0kW (3P)	UTPBX180A	-	£92	
IU Separation Tube - IU Capacity 28.0kW or less (3P)	UTPBX090A	-	£64	
IU Separation Tube - IU Capacity 56.1kW or more (2P)	UTRBP567X or UTPAX567A	-	£151	
IU Separation Tube - IU Capacity 28.1 to 56.0kW (2P)	UTRBP180X or UTPAX180A	-	£87	
IU Separation Tube - IU Capacity 28.0kW or less (2P)	UTRBP090X or UTPAX090A	-	£59	
IU Separation Tube - IU Capacity 19.6kW or less (2P)	UTPAX054A	-	£51	For the JHS systems only
Outdoor Unit Branch Kit (2P)	UTRCP567X or UTPCX567A	-	£151	
Outdoor Unit Branch Kit (3P)	UTPDX567A	-	£156	
Header - 6 connections - IU Capacity 28.0kW or less (3P)	UTPJ0906A	-	£210	
Header - 6 connections - IU Capacity 28.0.1 to 56.0kW (3P)	UTPJ1806A	-	£215	
Header - 8 connections - IU Capacity 28.0kW or less (3P)	UTPJ0908A	-	£220	
Header - 8 connections - IU Capacity 28.0.1 to 56.0kW (3P)	UTPJ1808A	-	£225	
Header - 6 connections - IU Capacity 28.0kW or less (2P)	UTRH0906L	-	£157	
Header - 6 connections - IU Capacity 28.0.1 to 56.0kW (2P)	UTRH1806L	-	£159	
Header - 8 connections - IU Capacity 28.0kW or less (2P)	UTRH0908L	-	£161	
Header - 8 connections - IU Capacity 28.0.1 to 56.0kW (2P)	UTRH1808L	-	£164	
Remote Sensor Unit	UTYXSZX	-	£54	
Flange (Round) for MSP Duct Indoor Unit	UTDRF204	-	£30	
Flange (square) for MSP Duct Indoor Unit	UTDSF045T	-	£40	
Long Life Filter for MSP Duct Indoor Unit	UTDLF25NA	-	£91	
Long Life Filter for HSP Duct Indoor Unit	UTDLF60KA	-	£91	
Auto Louver Grille Kit	UTDGXSAW		£130	For ARXD04-14GAIH
Auto Louver Grille Kit	UTDGXSBW		£145	For ARXD18GAIH
Air Outlet Shutter Plate	UTRYDZB		POA	For Compact Cassette Type
Air Outlet Shutter Plate	UTRYDZC		£60	For Cassette Type
Drain Pump Unit	UTZPX1BBA		POA	For Low Static Pressure Duct Type
Drain Pump Unit	UTZPX1NBA		£60	For Medium Static Pressure Duct Type
Drain Pump Unit	UTRDPB24T		£45	For Ceiling Type

Description	Part Number	Nominal Cooling Capacity kW	2014 List Price £	Comments
Fresh air Intake Kit	UTZVXAA		£450	For Compact Cassette Type
Fresh air Intake Kit	UTZVXGA		£350	For Cassette Type
Air Outlet Shutter Plate	UTRYDZB		POA	For Compact Cassette Type
Air Outlet Shutter Plate	UTRYDZC		£60	For Cassette Type
Input / Output Wire Adaptor	UTYXWZXZ6		£75	Communication system: External Connect Kit
Input / Output Wire Adaptor	UTYXWZXZ7		£80	Communication system: External Connect Kit
Input / Output Wire Adaptor	UTYXWZXZ8		£70	Communication system: External Connect Kit
Input / Output Wire Adaptor	UTYXWZXZ9		£80	Communication system: External Connect Kit
Input / Output Wire Adaptor	UTYXWZXZA		£70	Communication system: External Connect Kit
Input / Output Wire Adaptor	UTYXWZXZB		£80	Communication system: External Connect Kit
Input / Output Wire Adaptor	UTYXWZXZC		£70	Communication system: External Connect Kit
Input / Output Wire Adaptor	UTYXWZXZD		£70	Communication system: External Connect Kit
Input / Output Wire Adaptor	UTYXWZXZE		£70	Communication system: External Connect Kit

ERV Optional Parts

Description	Part Number	Nominal Cooling Capacity kW	2014 List Price £	Comments
ENERGY RECOVERY VENTILATOR				
Ventilator Unit	UTZBD025B	-	£680	
Ventilator Unit	UTZBD035B	-	£840	
Ventilator Unit	UTZBD050B	-	£1,080	
Ventilator Unit	UTZBD080B	-	£1,570	
Ventilator Unit	UTZBD100B	-	£1,780	
ACCESSORIES				
DX-Kit - Control Unit	UTYVDGX	-	POA	for Air Handling Applications
DX-Kit - EEV Unit	UTPVX30A	-	POA	for Air Handling Applications 5.0kW, 6.3kW and 8.0kW
DX-Kit - EEV Unit	UTPVX60A	-	POA	for Air Handling Applications 10.0kW, 12.5kW and 14.0kW
DX-Kit - EEV Unit	UTPVX90A	-	POA	for Air Handling Applications 20.0kW, 25.0kW, 40.0kW and 50.0kW
DX-Kit - EEV Unit	2 x UTPVX90A	-	POA	for Air Handling Applications 40.0kW and 50.0kW



Suppresses indoor temperature changes while providing fresh air

High efficiency and low noise are achieved using a highly efficient element. Comfortable air-conditioned environment is provided by effectively determining whether to use heat-exchange ventilation or normal ventilation while meeting diverse needs.



Energy Recovery Ventilator

Energy saving ventilation

Thanks to efficient recovery of thermal energy lost during Ventilation, you can save an air-conditioning fee.

Facility saving

Thanks to a drastic reduction of load incurred by outside air, you can make air-conditioners more compact in parallel with the recovery of thermal energy.

Humidity adjusting effect

In a cooling mode, a highly humid open-air is brought near to a dehumidified room atmosphere and then supplied. In a heating mode, a room humidity is transferred to the dry outside air and then supplied.

Sound shield effect

The ducts of the unit and the heat exchange element are characteristic of sound shield effect, so that the office and store environment can be preserved.

energy recovery ventilator

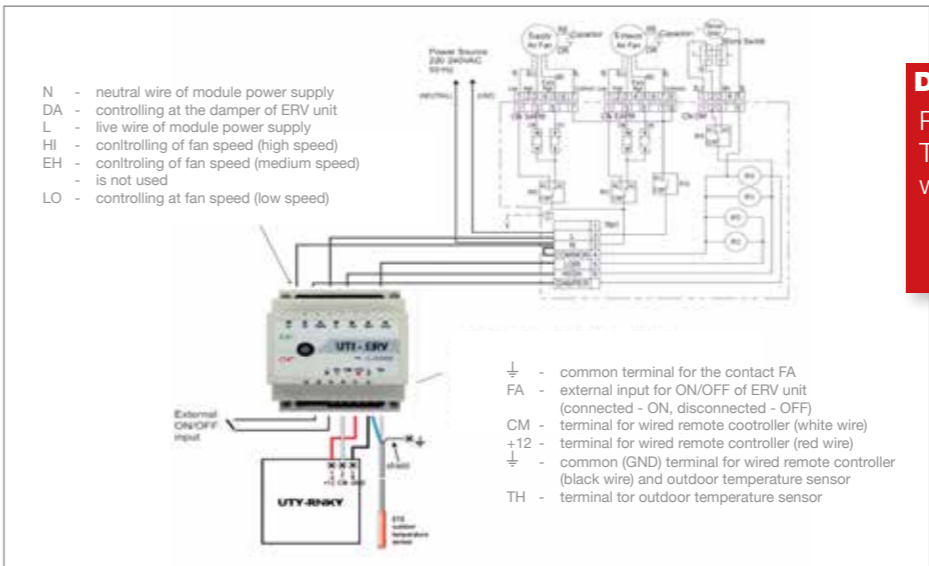
Optional Handwired Controller Interface : UTI-ERV

In order to use a Fujitsu hard wired controller c/w time clock with the ERV units an interface is required. The UTI-ERV interface provides the following features:-

- UTI-ERV interface supplied with outside air intake duct sensor for control of the ERV bypass damper e.g. heat recovery or “free cooling” bypass mode.
- Dry contact terminals for remote on/off e.g. from BMS.
- Allows the use of a Fujitsu UTY-RNKY hard wired controller which has the following features:-
 - Allows ERV fan speed selection from remote controller - Hi/Low (ERV Hi/low fan speeds can also be changed by re-configuring the tapings on the fan motors).
 - Controller has an integral 7 day programmable time clock.
 - HW Controller has built in room temperature sensor and temperature selection.
 - Filter clean indicator facility.
 - Manual or Auto control of ERV bypass damper.



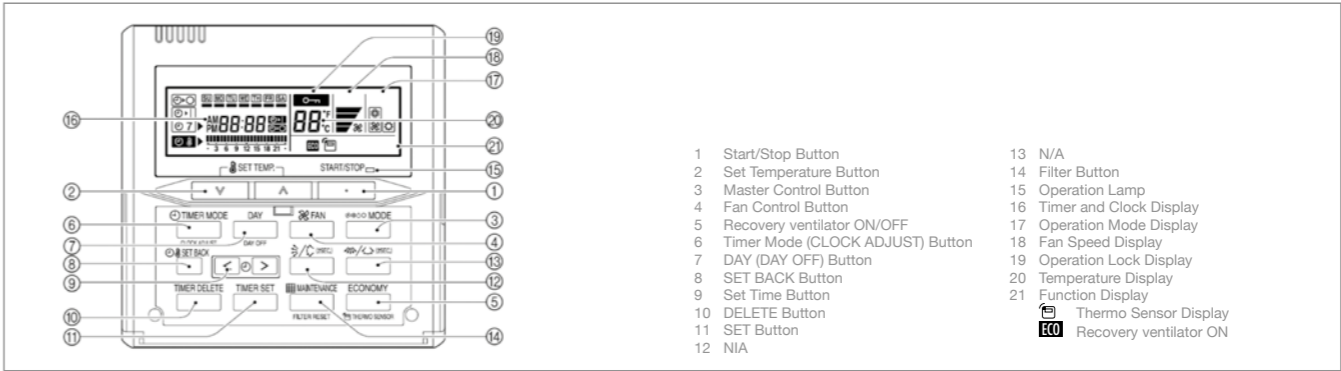
Wired diagram



Designers Comment

Poor quality image. Text will not reproduce well when printed.

Description of the buttons of remote controller



Specifications

Model Name	UTI-ERV
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption	6.5
Dimensions (HxWxD) mm	67 x 288 x 211
Weight (g)	1,500
List Price	000

energy recovery ventilator

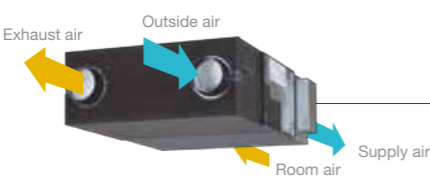
UTZ-BD025B / UTZ-BD035B / UTZ-BD050B / UTZ-BD080B / UTZ-BD100B

Energy recovery ventilator unit offers maximum comfort and greater energy savings.



Features

Adopts a highly efficient counter-flow heat exchange element



Heat exchange ventilation and normal ventilation

Heat exchange ventilation

When a room is cooled or heated, the exhausted cooling / heating energy is recovered by heat-exchange ventilation.

Normal ventilation

This is used in the spring and autumn, when rooms are not cooled or heated, that is, when there is little difference between the indoor and outdoor air conditions. In addition, at night during the hot season, when the outside air temperature drops the outside air is drawn inside without heat exchange, alleviating the load on the air conditioning equipment.

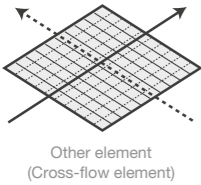
High Efficiency

Energy efficiency and ecology

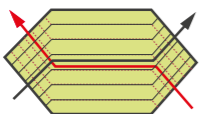
Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.

20%
Energy saving

Features of heat exchange element



Other element
(Cross-flow element)



Fujitsu element
(Counter-flow element)

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect remains unchanged.

More Comfort

Quiet operation

Significantly reducing low pressure loss and noise allows low-noise operation.

Design Flexibility

Extended range of an external static pressure

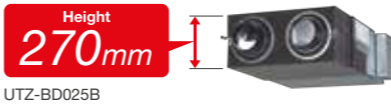
An external static pressure is improved by adopting a powerful fan motor. This allows for application in a wide variety building.

Features

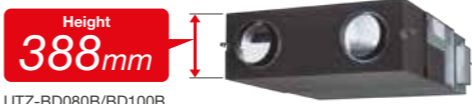
Easy Installation and Maintenance

Slim shape and easier installation

Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.



UTZ-BD025B

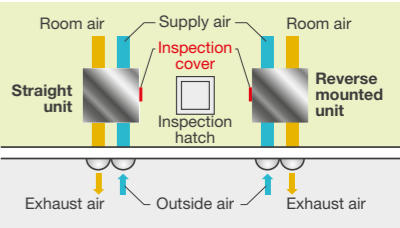


UTZ-BD080B/BD100B

Reverse mountable direct air supply / exhaust system

Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.

Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



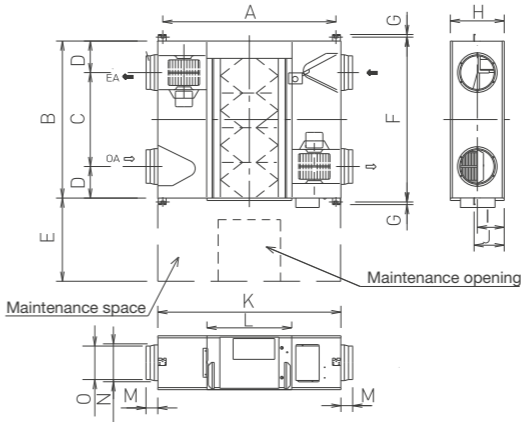
Specifications

Rated flow rate				250 m3/h	350 m3/h	500 m3/h	800 m3/h	1000 m3/h
Model No.				UTZBD025B	UTZBD035B	UTZBD050B	UTZBD080B	UTZBD100B
Power source				220 - 240V, 50Hz				
Heat Exchange Ventilation	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Air flow rate	(Extra high)/High/Low	m3/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700
	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Temperature Exchange Efficiency	(Extra high)/High/Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79
	Energy Exchange Efficiency Cooling	(Extra high)/High/Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70
	Energy Exchange Efficiency Heat pump	(Extra high)/High/Low	%	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76
	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37 / 34.5	38.5 / 37.5 / 34.5
Normal Ventilation	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Air flow rate	(Extra high)/High/Low	m3/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700
	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	38.5 / 38 / 32.5	37.5 / 37 / 34.5	40.5 / 39.5 / 36.5
Dimensions		WxDxH	mm	882 x 599 x 270	1050 x 804 x 317	1090 x 904 x 317	1322 x 884 x 388	1322 x 1134 x 388
Weight			kg	29	49	57	71	83
Outlet duct diameter			mm	150	150	200	250	250
Operation range			°C	-10 ~ 40	-10 ~ 40	-10 ~ 40	-10 ~ 40	-10 ~ 40
Maximum humidity			%	85	85	85	85	85
List Price			£	680	840	1080	1570	1780

* The noise level must be measured 1.5 m below the centre of the unit.

Dimensions Models : UTZ-BD025B / UTZ-BD035B / UTZ-BD050B / UTZ-BD080B / UTZ-BD100B

(Unit : mm)



	UTZBD025B	UTZBD035B	UTZBD050B	UTZBD080B	UTZBD100B
A	810	978	1018	1250	1250
B	599	804	904	884	1134
C	315	580	640	428	678
D	142	112	132	228	228
E	600	600	600	600	600
F	655	860	960	940	1190
G	19	19	19	19	19
H	270	317	317	388	388
I	135	159	159	194	194
J	159	182	182	218	218
K	882	1050	1090	1322	1322
L	414	470	470	612	612
M	95	70	127	85	85
N	219	162	210	258	258
O	144	144	194	242	242

NEW ARXH054GTAH / ARXH072GTAH / ARXH096GTAH

Available Summer 2014

The heat pump method efficiently processes the outdoor air for cooling and heating and supplies 100% fresh air into a room.

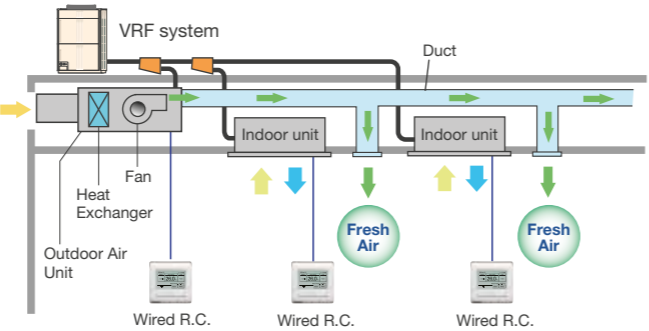
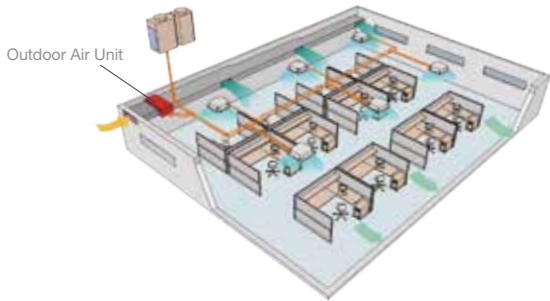


Features

One VRF system can provide air conditioning and air supply at the same time.

Outdoor Air Unit can be connected in a same VRF*1 system as one of indoor unit series and can create fresh and comfortable air supply together from our high advanced technology.

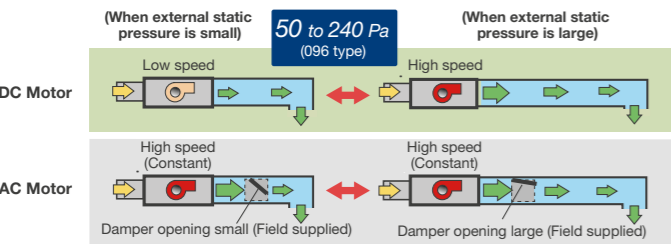
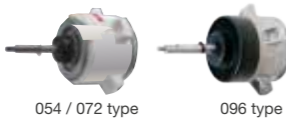
*1. Connectable VRF series: J-IIS, J-II, V-II, VR-II
In J-II series alone, OAU is prohibit to connect under the ambient temperature of 40°C or higher.



* Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity. In addition, if there are mixed connections with indoor units, make the Outdoor Air Unit connection capacity 30% or less of the outdoor unit capacity.

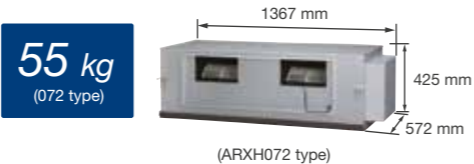
High energy savings and flexible duct design by using DC motor

- Greatly reduces electricity consumption by adopting permanent magnet compared to when using an AC motor.
- Compared with AC motor, changing the speed makes it possible to respond flexibly to the external static pressure from 50 Pa to 240 Pa. Even if damper equipment is not used, static pressure can be adjusted and duct design is easy.
- Static pressure can be set easily using wired remote controller.



Top class compact design

- Top class lightweight compact design at just 425 mm in height, 55 kg in weight for ARXH072 type. This unit can be installed easily even at narrow space.



Features

Various Controllers

Supplied variety of controllers as options, such as individual controller, central controller, and building management controller.

Individual Controller



Central Controller



* The temperature setting is discharged air temperature setting. The air volume is set to a constant speed.

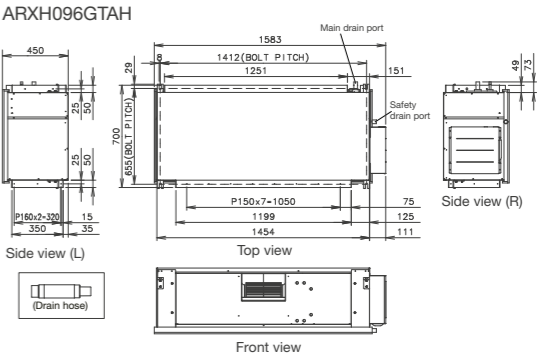
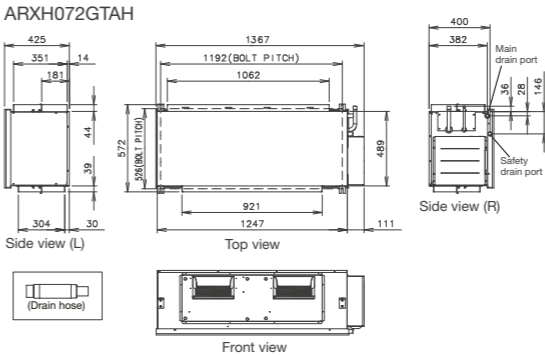
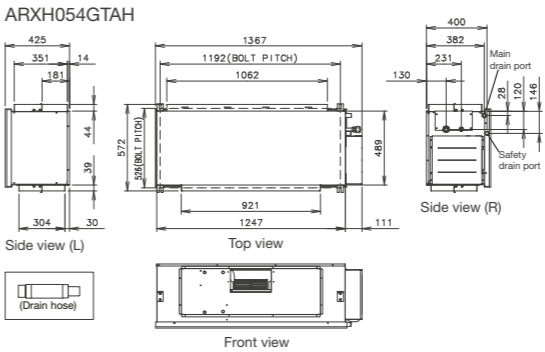
Specifications

Model Name			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source		V/ Ø/Hz	230/1/50	230/1/50	230/1/50
	Cooling		14.0	22.4	28.0
Capacity	Heating	kW	8.9	13.9	17.4
	Cooling / Heating	kW	1.79	292	370
Air flow rate		m3/h	1,080	1,680	2,100
Static Pressure	Standard (range)	Pa	185 (50-185)	200 (50-200)	200 (50-240)
Sound pressure level		dB(A)	42	44	47
Dimensions (H x W x D)		mm	425x1,367x572	425x1,367x572	450x1,583x700
Weight		kg	48	55	71
Connection pipe diameter	(Small / Large)	mm	Ø9.52/Ø19.05	Ø12.70/Ø22.22	Ø12.70/Ø22.22
Operation range	Cooling	°C	5 to 43	5 to 43	5 to 43
	Heating		-7 to 21	-7 to 21	-7 to 21
Refrigerant			R410A	R410A	R410A
List Price		£ POA	POA	POA	POA

Note : Specifications are based on the following conditions. Cooling : Outdoor temperature of 33°CDB / 28°CWB. Heating : Outdoor temperature of 0°CDB / -2.9°CWB. Pipe length : 7.5 m Voltage : 230 [V].

Dimensions Models : ARXH054GTAH/ARXH072GTAH/ARXH096GTAH

(Unit : mm)



energy recovery ventilator

NEW Control unit : UTY-VDGX

NEW EEV unit : UTP-VX30A / UTP-VX60A / UTP-VX90A

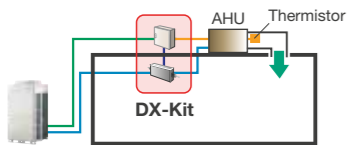
Available Summer 2014

This kit can connect the general-purpose air handling unit (AHU) and the fan coil unit (FCU) to the VRF system. It enables VRF system to control the operation of both air conditioner and ventilation.

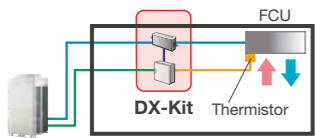


Features

Multiple temperature sensors optimally control the air handling unit and fan coil unit.

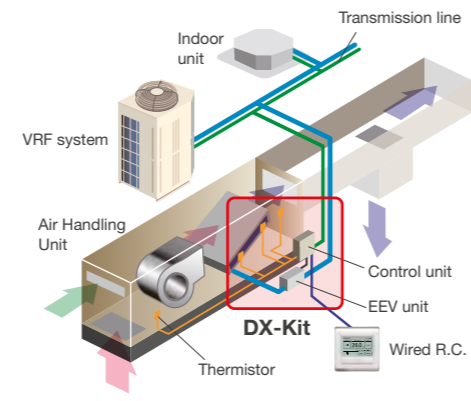


In case of connecting the air handling unit, the supply air temperature is controlled optimally by the discharge temperature control.



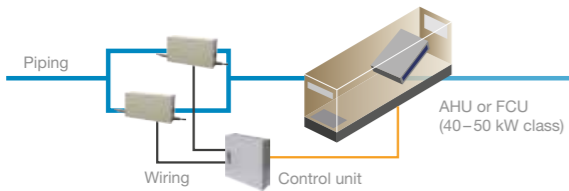
In case of connecting the fan coil unit, the room temperature is controlled optimally by the intake temperature control.

Product's image



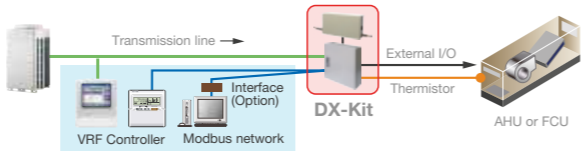
Supports a wide range of capacity classes

- 2 EEV units can be connected in parallel and up to 20 HP (50 kW) large capacity units can be connected.
- Connectable capacity range: 5 kW to 50 kW

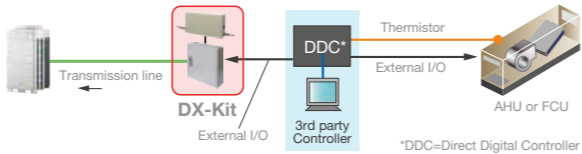


A variety of controls to match the application

- Central control using our VRF controllers or central management controllers



- Central control from external controllers



Features

Functions Summary

Inputs

- ON/OFF
- Setting temperature
- Capacity demand
- Heating / Cooling operation mode
- Fault information

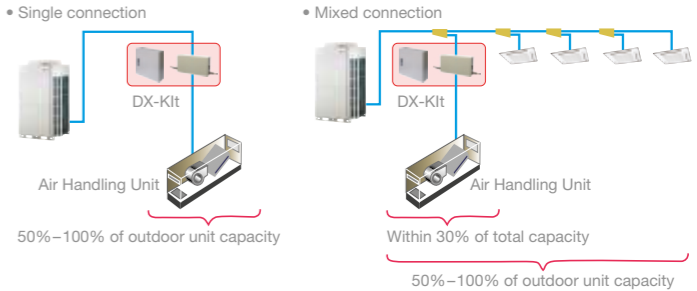
Outputs

- ON/OFF indication
- Fan ON/OFF indication
- Thermo ON/OFF indication
- Defrost indication
- Fault indication

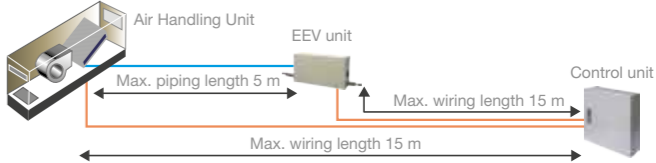
Installation Limitation

- Connectable VRF series : J-IIS, J-II, V-II, VR-II
- Connectable DX-Kit system capacity range : 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units : 30% or less of the outdoor unit capacity
- Max. wiring length from control unit : 15 m
- Max. piping length between EEV unit and indoor unit : 5 m
- Outdoor installation : Control unit (IP54 class) and EEV unit can be installed at an outdoor space.

Connectable capacity



Piping and wiring length




Specifications


Connectable Capacity Class			5.0kW	6.3kW	8.0kW	10.0kW	12.5kW	14.0kW	20.0kW	25.0kW	40.0kW	50.0kW
Capacity	Cooling	kW	5.6	6.3	8.0	10.0	12.5	14.0	22.4	25.0	40.0	50.4
	Heating	kW	6.3	7.1	9.0	11.2	14.0	16.0	25.0	28.0	45.0	56.5
Connectable Heat Exchanger Volume	Maximum	cm ³	950	1070	1360	1700	2120	2380	3800	4250	6800	8500
	Minimum	cm ³	760	860	1080	1350	1690	1890	3030	3380	5400	6750
Airflow Rate		m ³ /h	1060	1200	1520	1600	2000	2240	3560	4000	6400	8000


Control Unit		UTYVDGX			
Power source	V/Ø/Hz	230 / 1 / 50			
Dimensions (H x W x D)	mm	*			
List Price	£	POA			
EEV Unit		UTPVX30A	UTPVX60A	UTPVX90A	UTPVX90A×2
Connection pipe diameter (Liquid)	mm	Ø9.53	Ø12.7	Ø12.7	Ø12.7
Dimensions (H x W x D)	mm	*			
List Price	£	POA	POA	POA	POA


*Data were not available at time of production.
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m Voltage : 230 [V].


Comfortable function


- 


Human sensor
Human sensor catches movements of people in a room.
- 


Up / down swing flaps
The up/down flaps automatically swing up and down.
- 


Double swing automatic
Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.
- 


Automatic air flow adjustment
The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.
- 


Auto restart
In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once the power supply is restored.
- 


Auto-changeover
The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.
- 


10°C HEAT operation
The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.
- 

Connectable distributing duct
- 

Connectable fresh air duct
- 

Fresh air intake
Fresh air can be taken in by a fan which can be connected using external control unit.
- 

Economy mode
Limits the maximum operation current, and performs operation with the power consumption suppressed.
- 


Powerful mode
Operation at maximum air flow and compressor speed, and quickly makes the room comfortable.
- 


Low Noise Mode
Sound noise level of outdoor unit can be selected.


 **V-PAM control models**


 **i-PAM control models**


Convenient function

- 

Sleep timer
The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.
- 


Program timer
This digital timer allows selection of one of four options: ON, OFF, ON →OFF or OFF →ON.
- 


Weekly timer
Different on-off times can be set for each day.
- 


Weekly + setback timer
Weekly + Setback timer can set temperature for two times spans and for each day of the week.
- 

Filter sign
Indicates the filter cleaning period by lamp.

Clean function

- 

Long-life ion deodorisation filter
The filter deodorises by powerfully decomposing absorbed odors using the oxidising and reducing effects of ions generated by ultra-fine-particle ceramic.
- 

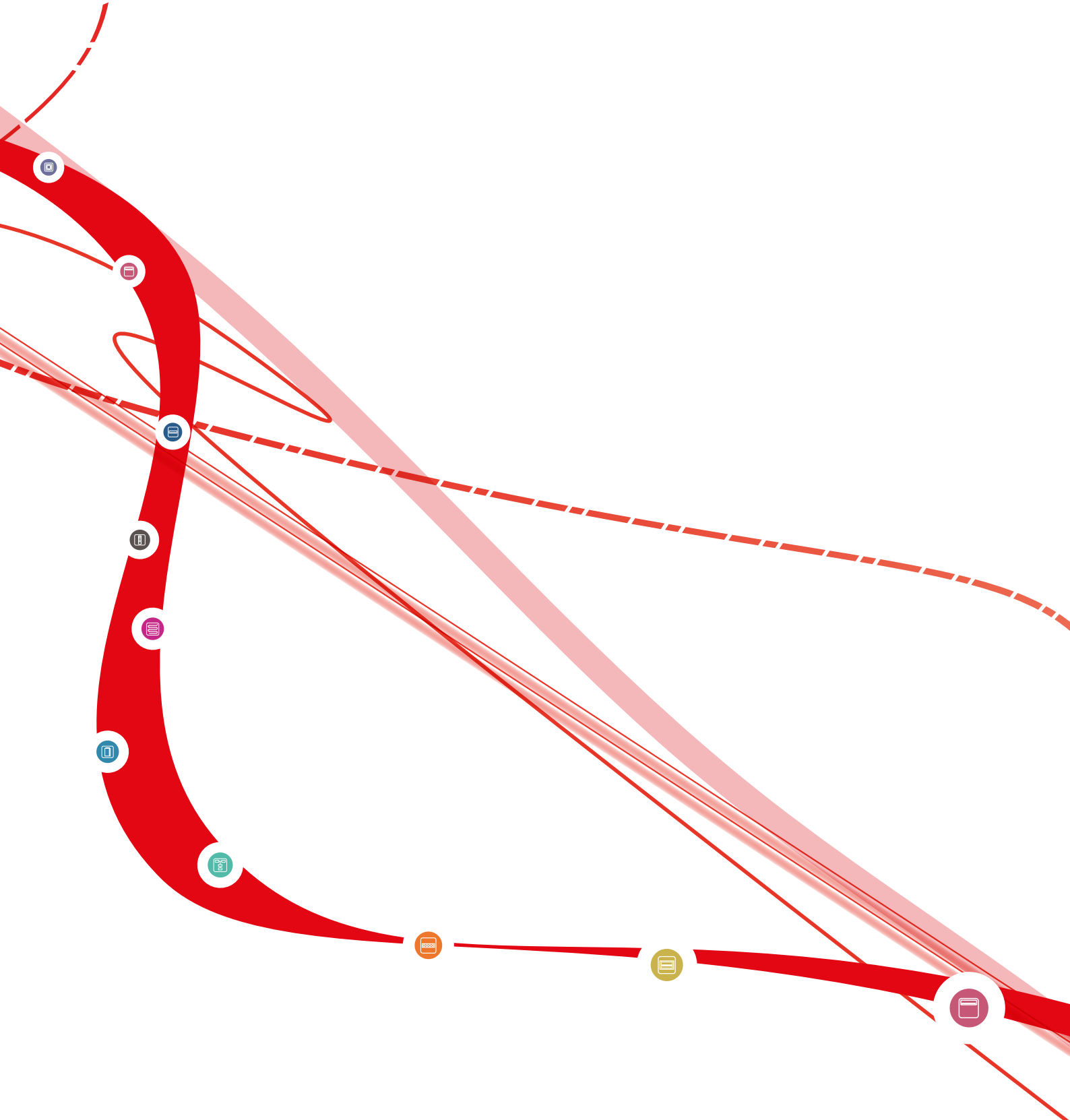
Apple-catechin filter
Fine dust, invisible mold spores, and harmful microorganisms are absorbed into the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.
- 

Washable panel

Feature summary

	Wall Mounted	Floor	Compact Cassette / Cassette	Floor/Ceiling	Ceiling	Slim Duct	Medium Static Pressure Duct	High Static Pressure Duct						
	ASYG07/09/12/LTCA	ASYG07/09/12/14/LUCA	ASYG18/30/LFCA, ASYG24/LFCC	ASYG09/12/14/LVCA	AUYG30/36/LRLA, AUYG36/45/54/LRLA	ABYG18/LVTB, ABYG24/LVTA	ABYG30/36/LRTE, ABYG36/45/54/LRTA	ARYG24/36/45/LMLA, ARYG30/36/LMLE	ARYG12/14/18/LLTB	ARYG45/54/60/LHTA	ARYC72/90/LHTA			
Human sensor	●													
Up / down swing flaps	●	●	●		●	●	●		○					
Double swing automatic				●			●	●						
Automatic air flow adjustment	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Auto restart	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Auto-changeover	●	●	●	●	●	●	●	●	●	●	●	●	●	●
10°C heat operation	●	●	●	●	●	●	○	●	●	○	○	○	○ (60)	
Connectable distributing duct						●				●				
Connectable fresh air duct					○	●		●	○	●		○		
Fresh air intake					○	○		○	○	○	○	○	○	○
Economy mode	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Powerful mode	●	●	●											
Low Noise mode	●	●	●			○ (45/54) (36/LRLA)	○ (45/54) (36/LRTA)	○ (45) (36/LMLA)	○	○				
Sleep timer	●	●	●	●	●	●	○	●	●	○	○	○ (60)	○	
Program timer	●	●	●	●	●	●	○	●	●	○	○	○ (60)	○	
Weekly timer	●	●												
Weekly + setback timer	○	○	○	○	○	○	●	○	○	●	●	●	●	
Filter sign	●	●	●	●	●	●	●	●	●	●	●	●		
Long-life ion deodorisation filter	●	●	●	●	●									
Apple-catechin filter	●	●	●	●	●									
Washable panel			●	●	●									

○: Optional function



Distributed by:

Cooling & Heating capacities are based on the following conditions:
Cooling: Indoor Temp.: 27°C DB/19°C WB, Outdoor Temp.: 35°C DB/24°C WB
Heating: Indoor Temp.: 20°C DB, Outdoor Temp.: 7°C DB
Note: Fuse ratings shown are only for information. Any fuses or MCBs installed on-site should be sized in accordance with I.E.E. regulations.
For full installation details contact FG Eurofred or your local distributor.

The company reserves the right to make any variation in specification to the equipment described or to withdraw or replace products without prior notification or public announcement. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form any part of any contract. All equipment and services are supplied subject to FG Eurofred's terms and Conditions of Sale.

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AIR CONDITIONERS

